



# R-2B Polyclonal AntibodyS

|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Catalog No         | BYab-12815                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Isotype            | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Reactivity         | Human;Rat;Mouse;                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Applications       | WB;IF;ELISA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Gene Name          | HTR2B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Protein Name       | 5-hydroxytryptamine receptor 2B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Immunogen          | The antiserum was produced against synthesized peptide derived from human HTR2B. AA range:15-64                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Specificity        | SR-2B Polyclonal Antibody detects endogenous levels of SR-2B protein.                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Formulation        | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Source             | Polyclonal, Rabbit,IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Purification       | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.                                                                                                                                                                                                                                                                                                                                                                                                          |
| Dilution           | Western Blot: 1/500 - 1/2000. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/10000. Not yet tested in other applications.                                                                                                                                                                                                                                                                                                                                                                                                        |
| Concentration      | 1 mg/ml                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Purity             | ≥90%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Storage Stability  | -20°C/1 year                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Synonyms           | HTR2B; 5-hydroxytryptamine receptor 2B; 5-HT-2B; 5-HT2B; Serotonin receptor 2B                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Observed Band      | 54kD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Cell Pathway       | Cell membrane ; Multi-pass membrane protein . Cell junction, synapse, synaptosome .                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Tissue Specificity | Ubiquitous. Detected in liver, kidney, heart, pulmonary artery, and intestine. Detected at lower levels in blood, placenta and brain, especially in cerebellum, occipital cortex and frontal cortex.                                                                                                                                                                                                                                                                                                                           |
| Function           | function:This is one of the several different receptors for 5-hydroxytryptamine (serotonin), a biogenic hormone that functions as a neurotransmitter, a hormone, and a mitogen. This receptor mediates its action by association with G proteins that activate a phosphatidylinositol-calcium second messenger system.,similarity:Belongs to the G-protein coupled receptor 1 family.,subunit:Interacts with MPDZ.,tissue specificity:Detected in most peripheral organs. Only low expression levels were found in the brain., |

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**Background**

This gene encodes one of the several different receptors for 5-hydroxytryptamine (serotonin) that belongs to the G-protein coupled receptor 1 family. Serotonin is a biogenic hormone that functions as a neurotransmitter, a hormone, and a mitogen. Serotonin receptors mediate many of the central and peripheral physiologic functions of serotonin, including regulation of cardiovascular functions and impulsive behavior. Population and family-based analyses of a minor allele (glutamine-to-stop substitution, designated Q20\*) which blocks expression of this protein, and knockout studies in mice, suggest a role for this gene in impulsivity. However, other factors, such as elevated testosterone levels, may also be involved. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Mar 2016],

**matters needing attention**

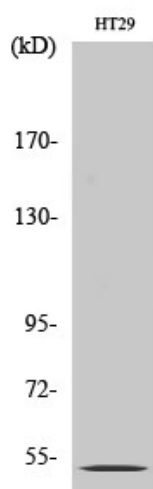
Avoid repeated freezing and thawing!

**Usage suggestions**

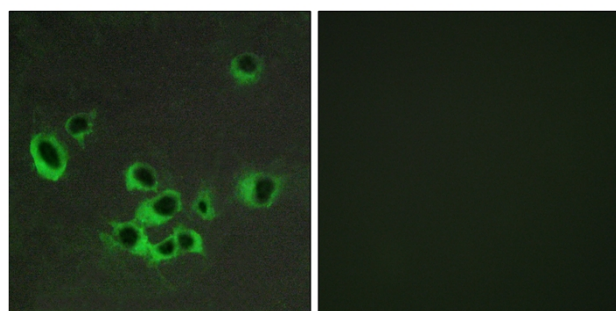
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



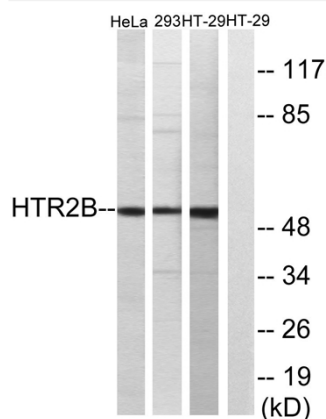
## Products Images



Western Blot analysis of various cells using SR-2B Polyclonal Antibody



Immunofluorescence analysis of COS7 cells, using HTR2B Antibody. The picture on the right is blocked with the synthesized peptide.



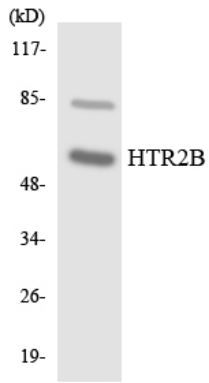
Western blot analysis of lysates from HT-29, 293, and HeLa cells, using HTR2B Antibody. The lane on the right is blocked with the synthesized peptide.

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Western blot analysis of the lysates from COLO205 cells using HTR2B antibody.