



# Sox-12 Polyclonal Antibody

|                           |                                                                                                                                                                                                                                                                                                                      |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Catalog No</b>         | BYab-18461                                                                                                                                                                                                                                                                                                           |
| <b>Isotype</b>            | IgG                                                                                                                                                                                                                                                                                                                  |
| <b>Reactivity</b>         | Human;Mouse                                                                                                                                                                                                                                                                                                          |
| <b>Applications</b>       | IHC;IF;ELISA                                                                                                                                                                                                                                                                                                         |
| <b>Gene Name</b>          | SOX12                                                                                                                                                                                                                                                                                                                |
| <b>Protein Name</b>       | Transcription factor SOX-12                                                                                                                                                                                                                                                                                          |
| <b>Immunogen</b>          | The antiserum was produced against synthesized peptide derived from human SOX12. AA range:71-120                                                                                                                                                                                                                     |
| <b>Specificity</b>        | Sox-12 Polyclonal Antibody detects endogenous levels of Sox-12 protein.                                                                                                                                                                                                                                              |
| <b>Formulation</b>        | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.                                                                                                                                                                                                                                              |
| <b>Source</b>             | Polyclonal, Rabbit,IgG                                                                                                                                                                                                                                                                                               |
| <b>Purification</b>       | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.                                                                                                                                                                                                |
| <b>Dilution</b>           | IHC: 1/100 - 1/300. ELISA: 1/20000.. IF 1:50-200                                                                                                                                                                                                                                                                     |
| <b>Concentration</b>      | 1 mg/ml                                                                                                                                                                                                                                                                                                              |
| <b>Purity</b>             | ≥90%                                                                                                                                                                                                                                                                                                                 |
| <b>Storage Stability</b>  | -20°C/1 year                                                                                                                                                                                                                                                                                                         |
| <b>Synonyms</b>           | SOX12; SOX22; Transcription factor SOX-12; Protein SOX-22                                                                                                                                                                                                                                                            |
| <b>Observed Band</b>      |                                                                                                                                                                                                                                                                                                                      |
| <b>Cell Pathway</b>       | Nucleus .                                                                                                                                                                                                                                                                                                            |
| <b>Tissue Specificity</b> | Expressed most abundantly in the CNS (PubMed:9215677). Expressed in the heart, pancreas, thymus, testis and ovary (PubMed:9215677). Weakly expressed in brain, placenta, lung, liver, skeletal muscle, kidney, spleen, prostate, small intestine, colon, and peripheral blood lymphocytes (PubMed:9215677).          |
| <b>Function</b>           | function:Binds to the sequence 5'-AACAAAT-3',similarity:Contains 1 HMG box DNA-binding domain.,tissue specificity:Expressed most abundantly in the CNS. Also expressed in fetal brain and kidney and adult heart, pancreas, testis and ovary. Other tissues were only weakly positive.,                              |
| <b>Background</b>         | Members of the SOX family of transcription factors are characterized by the presence of a DNA-binding high mobility group (HMG) domain, homologous to the HMG box of sex-determining region Y (SRY). Forming a subgroup of the HMG domain superfamily, SOX proteins have been implicated in cell fate decisions in a |

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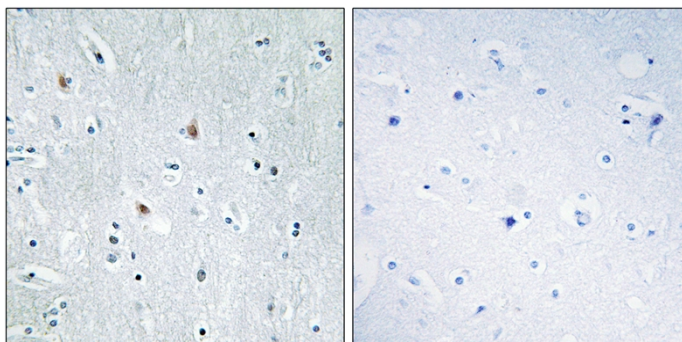
diverse range of developmental processes. SOX transcription factors have diverse tissue-specific expression patterns during early development and have been proposed to act as target-specific transcription factors and/or as chromatin structure regulatory elements. The protein encoded by this gene was identified as a SOX family member based on conserved domains, and its expression in various tissues suggests a role in both differentiation and maintenance of several cell types. [provided by RefSeq, Jan 2013],

**matters needing attention**

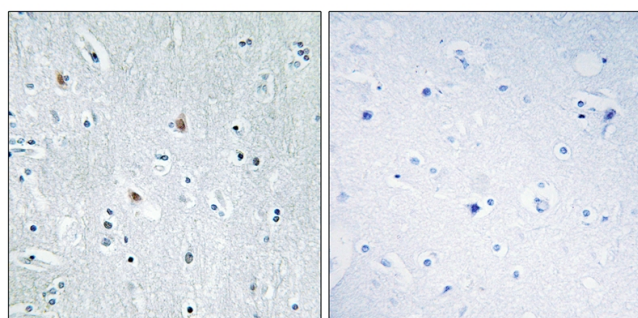
Avoid repeated freezing and thawing!

**Usage suggestions**

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



**Products Images**



Immunohistochemistry analysis of paraffin-embedded human brain tissue, using SOX12 Antibody. The picture on the right is blocked with the synthesized peptide.