



# ERβ (phospho Ser105) Monoclonal Antibody

Estrogen Receptor-beta around the phosphorylation site of Ser105. AA range:71-120  Specificity Phospho-ER β (S105) Monoclonal Antibody detects endogenous levels of ER protein only when phosphorylated at S105.  Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.  Source Monoclonal, Mouse, IgG  Purification The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.  Dilution WB 1:500-2000  Concentration 1 mg/ml  Purity ≥90%  Storage Stability -20°C/1 year  Synonyms ESR2; ESTRB; NR3A2; Estrogen receptor beta; ER-beta; Nuclear receptor subfamily 3 group A member 2  Observed Band 59kD  Cell Pathway Nucleus .  Ilsoform 1]: Expressed in testis and ovary, and at a lower level in heart, brain, placenta, liver, skeletal muscle, spleen, thymus, prostate, colon, bone marrow, mammary gland and uterus. Also found in uterine bone, breast, and ovarian turcell lines, but not in colon and liver tumors : [Isoform 2]: Expressed in spleen, thymus, testis and ovary and at a lower level in skeletal muscle, prostate, colon small intestine, leukocytes, bone marrow, mammary gland and uterus : [Isoform 5]: Expressed in testis, and at a lower level in testis, placenta, skeletal muscle, spleen and leukocytes, and at a lower level in testis, placenta, skeletal muscle, spleen and leukocytes, and at a lower level in testis, placenta, skeletal muscle, spleen and leukocytes, and at a lower level in testis.		
Reactivity         Human; Mouse; Rat           Applications         WB           Gene Name         ESR2           Protein Name         Estrogen receptor beta           Immunogen         The antiserum was produced against synthesized peptide derived from human Estrogen Receptor-beta around the phosphorylation site of Ser105. AA range:71-120           Specificity         Phospho-ER β (S105) Monoclonal Antibody detects endogenous levels of ER protein only when phosphorylated at S105.           Formulation         Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.           Source         Monoclonal, Mouse, IgG           Purification         The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.           Dilution         WB 1:500-2000           Concentration         1 mg/ml           Purity         ≥90%           Storage Stability         -20°C/1 year           Synonyms         ESR2; ESTRB; NR3A2; Estrogen receptor beta; ER-beta; Nuclear receptor subfamily 3 group A member 2           Observed Band         59kD           Cell Pathway         Nucleus .           Tissue Specificity         [Isoform 1]: Expressed in testis and ovary, and at a lower level in heart, brain, placenta, siver, skeletal muscle, spleen, thymus, prostate, colon, bone marrow, mammary gland and uterus. Also found in uterine bone, breast, and ovarian turcell lines, but not in colon	Catalog No	BYmab-03288
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rieart, lung, liver, kluney, paricreas, triymus, prostate, colon, sin	Tissue Specificity	placenta, liver, skeletal muscle, spleen, thymus, prostate, colon, bone marrow, mammary gland and uterus. Also found in uterine bone, breast, and ovarian tumor

Nanjing BYabscience technology Co.,Ltd

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domain:Composed of three domains: a modulating N-terminal domain, a DNA-binding domain and a C-terminal steroid-binding domain.,function:Nuclear hormone receptor. Binds estrogens with an affinity similar to that of ESR1, and activates expression of reporter genes containing estrogen response elements (ERE) in an estrogen-dependent manner. Isoform beta-cx lacks ligand binding ability and has no or only very low ere binding activity resulting in the loss of ligand-dependent transactivation ability. DNA-binding by ESR1 and ESR2 is rapidly lost at 37 degrees Celsius in the absence of ligand while in the presence of 17 beta-estradiol and 4-hydroxy-tamoxifen loss in DNA-binding at elevated temperature is more gradual.,online information:Estrogen receptor entry,similarity:Belongs to the nuclear hormone receptor family.,similarity:Belongs to the nuclear hormone receptor family.,si

### **Background**

This gene encodes a member of the family of estrogen receptors and superfamily of nuclear receptor transcription factors. The gene product contains an N-terminal DNA binding domain and C-terminal ligand binding domain and is localized to the nucleus, cytoplasm, and mitochondria. Upon binding to 17beta-estradiol or related ligands, the encoded protein forms homo- or hetero-dimers that interact with specific DNA sequences to activate transcription. Some isoforms dominantly inhibit the activity of other estrogen receptor family members. Several alternatively spliced transcript variants of this gene have been described, but the full-length nature of some of these variants has not been fully characterized. [provided by RefSeq, Jul 2008],

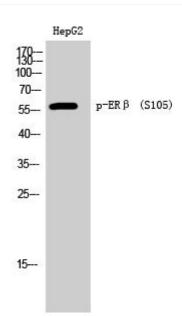
## matters needing attention

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 ER β (phospho Ser105) Monoclonal Antibody

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