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Phospho-ERBB2 (Y1139) Recombinant Monoclonal Antibody

Product Code	CSB-RA588766A0HU
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	P04626
Immunogen	A synthesized peptide derived from Human ERBB2
Species Reactivity	Human
Tested Applications	ELISA, IHC, IF; Recommended dilution: IHC:1:50-1:200, IF:1:50-1:200
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purification Method	Affinity-chromatography
Isotype	Rabbit IgG
Clonality	Monoclonal
Product Type	Recombinant Antibody
Immunogen Species	Homo sapiens (Human)
Research Area	Cancer;Tags & Cell Markers?Immunology;Signal transduction
Gene Names	ERBB2
Clone No.	10G9

Image



IHC image of CSB-RA588766A0HU diluted at 1:50 and staining in paraffin-embedded human testis tissue performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-rabbit polymer IgG labeled by HRP and visualized using 0.23% DAB.

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Immunofluorescence staining of MCF7 with CSB-RA588766A0HU at 1:25, counter-stained with DAPI. The cells were fixed in 4% formaldehyde and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4°C. The secondary antibody was Alexa Fluor 499-congugated AffiniPure Goat Anti-Rabbit IgG(H+L).

Description

The phospho-ERBB2 (Y1139) recombinant monoclonal antibody is synthetically generated in vitro, starting with the extraction of ERBB2 antibody genes from B cells isolated from immunoreactive rabbits. These genes are then amplified and cloned into suitable phage vectors, which are subsequently introduced into mammalian cell lines to enable the production of functional antibodies in substantial quantities. Following this, the phospho-ERBB2 (Y1139) recombinant monoclonal antibody is purified from the culture supernatant of the transfected cell lines through affinity chromatography. It can used for the accurate detection of human ERBB2 protein phosphorylated at Y1139 in ELISA, IHC, and IF applications.

Phosphorylation of ERBB2 at Y1139 is a crucial post-translational modification that activates signaling pathways involved in cell growth, proliferation, and differentiation. Dysregulation of ERBB2 phosphorylation is implicated in cancer and is the target of therapeutic interventions in various malignancies, particularly breast cancer.