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Product datasheet for TA503523S

Her2 (ERBB2) Mouse Monoclonal Antibody [Clone ID: OTI1C5]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI1C5
Applications:	FC, IF, IHC, WB
Recommended Dilution:	WB 1:2000, IHC 1:150, IF 1:100, FLOW 1:100
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Human recombinant protein fragment corresponding to amino acids 676-1255 of human ERBB2(NP_004439) produced in HEK293T cell.
Formulation:	PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Concentration:	1 mg/ml
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	137.7 kDa
Gene Name:	erb-b2 receptor tyrosine kinase 2
Database Link:	NP_004439 Entrez Gene 13866 MouseEntrez Gene 24337 RatEntrez Gene 2064 Human P04626

View online »

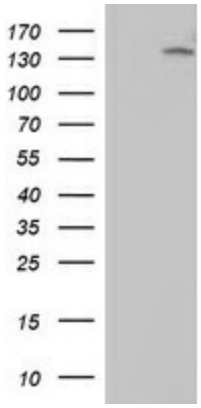
Background: This gene encodes a member of the epidermal growth factor (EGF) receptor family of receptor tyrosine kinases. This protein has no ligand binding domain of its own and therefore cannot bind growth factors. However, it does bind tightly to other ligand-bound EGF receptor family members to form a heterodimer, stabilizing ligand binding and enhancing kinase-mediated activation of downstream signalling pathways, such as those involving mitogen-activated protein kinase and phosphatidylinositol-3 kinase. Allelic variations at amino acid positions 654 and 655 of isoform a (positions 624 and 625 of isoform b) have been reported, with the most common allele, Ile654/Ile655, shown here. Amplification and/or overexpression of this gene has been reported in numerous cancers, including breast and ovarian tumors. Alternative splicing results in several additional transcript variants, some encoding different isoforms and others that have not been fully characterized. [provided by RefSeq]

Synonyms: CD340; HER-2; HER-2/neu; HER2; MLN 19; NEU; NGL; TKR1

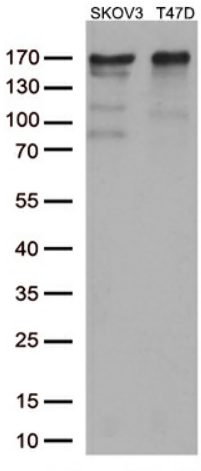
Protein Families: Druggable Genome, Protein Kinase, Transmembrane

Protein Pathways: Adherens junction, Bladder cancer, Calcium signaling pathway, Endometrial cancer, ErbB signaling pathway, Focal adhesion, Non-small cell lung cancer, Pancreatic cancer, Pathways in cancer, Prostate cancer

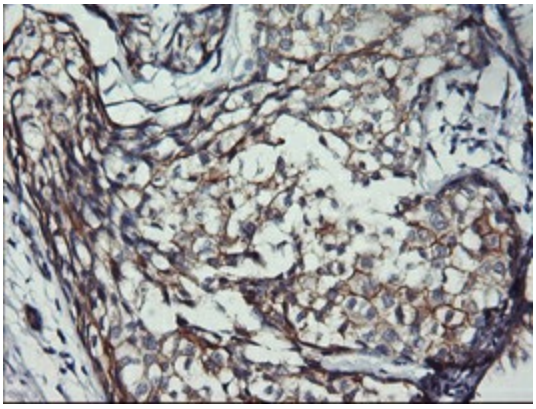
Product images:



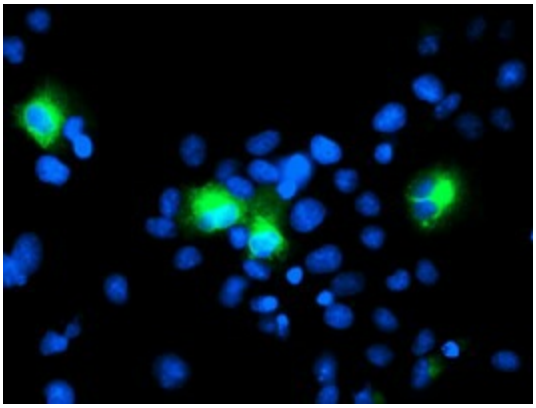
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY ERBB2 ([RC212583], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-ERBB2. Positive lysates [LY417979] (100ug) and [LC417979] (20ug) can be purchased separately from OriGene.



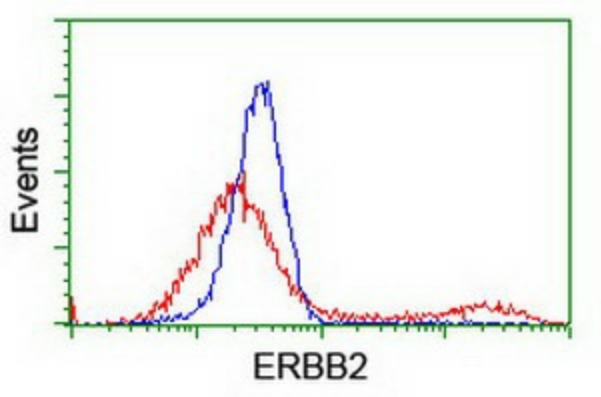
Western blot analysis of extracts (35ug) from 2 different cell lines by using anti-ERBB2 monoclonal antibody (1:500).



Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human breast tissue using anti-ERBB2 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA503523])



Anti-ERBB2 mouse monoclonal antibody ([TA503523]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY ERBB2 ([RC212583]).



HEK293T cells transfected with either [RC212583] overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-ERBB2 antibody ([TA503523]), and then analyzed by flow cytometry.