

Product datasheet

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ARG54982 anti-ERBB2 / HER2 antibody

Package: 100 μl Store at: -20°C

Summary

Product Description Rabbit Polyclonal antibody recognizes ERBB2 / HER2

Tested Reactivity Hu, Ms, Rat

Tested Application WB

Host Rabbit

Clonality Polyclonal

Isotype IgG

Target Name ERBB2 / HER2

Species Mouse

Immunogen KLH-conjugated synthetic peptide corresponding to aa. 1236-1268 of Mouse ERBB2.

Conjugation Un-conjugated

Alternate Names p185erbB2; Proto-oncogene c-ErbB-2; Metastatic lymph node gene 19 protein; Proto-oncogene Neu;

NGL; EC 2.7.10.1; CD340; CD antigen CD340; TKR1; HER-2; Tyrosine kinase-type cell surface receptor

HER2; HER2; NEU; HER-2/neu; MLN 19; Receptor tyrosine-protein kinase erbB-2

Application Instructions

Application table	Application	Dilution
	WB	1:1000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	Rat lung	

Properties

Form Liquid

Purification Purification with Protein A and immunogen peptide.

Buffer PBS and 0.09% (W/V) Sodium azide

Preservative 0.09% (W/V) Sodium azide

Storage instruction For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot

and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed

before use.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links GenelD: 13866 Mouse

GeneID: 2064 Human

Swiss-port # P04626 Human

Swiss-port # P70424 Mouse

Gene Symbol Erbb2

Gene Full Name v-erb-b2 erythroblastic leukemia viral oncogene homolog 2, neuro/glioblastoma derived oncogene

homolog (avian)

Background Protein tyrosine kinase that is part of several cell surface receptor complexes, but that apparently

 $needs\ a\ coreceptor\ for\ ligand\ binding.\ Essential\ component\ of\ a\ neuregulin-receptor\ complex,\ although$

neuregulins do not interact with it alone. GP30 is a potential ligand for this receptor. Regulates outgrowth and stabilization of peripheral microtubules (MTs). Upon ERBB2 activation, the

MEMO1-RHOA-DIAPH1 signaling pathway elicits the phosphorylation and thus the inhibition of GSK3B at cell membrane. This prevents the phosphorylation of APC and CLASP2, allowing its association with the cell membrane. In turn, membrane-bound APC allows the localization of MACF1 to the cell

membrane, which is required for microtubule capture and stabilization (By similarity).

Research Area Cancer antibody; Controls and Markers antibody; Signaling Transduction antibody; Circulating Tumor

Cells BioMarker antibody

Calculated Mw 138 kDa

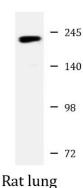
PTM Autophosphorylated. Autophosphorylation occurs in trans, i.e. one subunit of the dimeric receptor

phosphorylates tyrosine residues on the other subunit (Probable). Ligand-binding increases phosphorylation on tyrosine residues (PubMed:27134172). Signaling via SEMA4C promotes

phosphorylation at Tyr-1248 (PubMed:17554007). Dephosphorylated by PTPN12 (PubMed:27134172).

Images

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ARG54982 anti-ERBB2 / HER2 antibody WB image

Western blot: 20 μg of Rat lung lysate stained with ARG54982 anti-ERBB2 / HER2 antibody at 1:2000 dilution.