

Product datasheet

Anti-ErbB 2 antibody - BSA and Azide free ab31836

1 References

製品の概要

製品名	Anti-ErbB 2 antibody - BSA and Azide free
製品の詳細	Rabbit polyclonal to ErbB 2 - BSA and Azide free
由来種	Rabbit
特異性	ab31836 recognize wild and mutant (oncogenic) forms of c-erbB-2 protein (185kD). Does not crossreact with c-erbB-11 (EGF-R), c-erbB-3,2 or c-erbB-4
アプリケーション	適用あり: WB, IP, IHC-P
種交差性	交差種: Mouse, Rat, Human, Monkey 交差が予測される動物種: Cat, Dog
免疫原	Synthetic peptide: AENPEYLGLDVPV conjugated to KLH, corresponding to C terminal amino acids 1243/1255 of Human c-ErbB2 Run BLAST with Run BLAST with
ポジティブ・コントロール	T47D cells, SKBR3 cells.

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Add glycerol to a final volume of 50% for extra stability and aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
バッファー	Preservative: None Constituents: 40% Glycerol, PBS, pH 7.4
精製度	Protein A purified
ポリ/モノ	ポリクローナル
アイソタイプ	IgG

アプリケーション

Our [Abpromise guarantee](#) covers the use of **ab31836** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

アプリケーション	Abreviews	特記事項
WB		
IP		
IHC-P		
追加情報	<p>IHC-P: Use at a concentration of 2 - 5 µg/ml for 30 minutes at RT. Perform heat mediated antigen retrieval before commencing with IHC staining protocol. In particular, boil tissue sections in 10mM citrate buffer, pH 6.0, for 10-20 minutes followed by cooling at RT for 20 minutes.</p> <p>IP: Use at a concentration of 10 µg/mg protein lysate (Use protein A).</p> <p>WB: Use at a concentration of 5 - 10 µg/ml for 2 hours at RT. Predicted molecular weight: 138 kDa.</p> <p>Not yet tested in other applications. Optimal dilutions/concentrations should be determined by the end user.</p>	
ターゲット情報		
機能	<p>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. In the nucleus is involved in transcriptional regulation. Associates with the 5'-TCAAATTC-3' sequence in the PTGS2/COX-2 promoter and activates its transcription. Implicated in transcriptional activation of CDKN1A; the function involves STAT3 and SRC. Involved in the transcription of rRNA genes by RNA Pol I and enhances protein synthesis and cell growth.</p>	
組織特異性	<p>Expressed in a variety of tumor tissues including primary breast tumors and tumors from small bowel, esophagus, kidney and mouth.</p>	
関連疾患	<p>Hereditary diffuse gastric cancer Glioma Ovarian cancer Lung cancer Gastric cancer</p> <p>Chromosomal aberrations involving ERBB2 may be a cause gastric cancer. Deletions within 17q12 region producing fusion transcripts with CDK12, leading to CDK12-ERBB2 fusion leading to truncated CDK12 protein not in-frame with ERBB2.</p>	
配列類似性	<p>Belongs to the protein kinase superfamily. Tyr protein kinase family. EGF receptor subfamily. Contains 1 protein kinase domain.</p>	
翻訳後修飾	<p>Autophosphorylated. Autophosphorylation occurs in trans, i.e. one subunit of the dimeric receptor phosphorylates tyrosine residues on the other subunit (Probable). Ligand-binding</p>	

increases phosphorylation on tyrosine residues (PubMed:27134172). Signaling via SEMA4C promotes phosphorylation at Tyr-1248 (PubMed:17554007). Dephosphorylated by PTPN12 (PubMed:27134172).

細胞内局在

Cytoplasm. Nucleus and Cell membrane. Cytoplasm, perinuclear region. Nucleus. Translocation to the nucleus requires endocytosis, probably endosomal sorting and is mediated by importin beta-1/KPNB1.

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