abcam

Product datasheet

Recombinant human ErbB2 / HER2 (biotinylated) protein (Active) (Biotin) ab200500

3 图**像**

描述	
产 品名称	重组人ErbB2 / HER2 (biotinylated)蛋白(Active) (Biotin)
生物活性	Measured by its binding ability in a functional ELISA.
	Immobilized Herceptin mAb at 3 μg/mL (100 μl/well) can bind ab200500.
	The EC ₅₀ of ab200500 is 0.09-1 ng/mL.
纯 度	> 95 % SDS-PAGE.
内毒素水平	< 1.000 Eu/µg
表达系 统	HEK 293 cells
Accession	<u>P04626</u>
蛋白长度	Protein fragment
无 动 物成分	No
性质	Recombinant
种属	Human
序列	TQVCTGTDMK LRLPASPETH LDMLRHLYQG
	CQVVQGNLEL TYLPTNASLS FLQDIQEVQG
	YVLIAHNQVR QVPLQRLRIV RGTQLFEDNY
	ALAVLDNGDP LNNTTPVTGA SPGGLRELQL
	RSLTEILKGG VLIQRNPQLC YQDTILWKDI
	FHKNNQLALT LIDTNRSRAC HPCSPMCKGS
	RCWGESSEDC QSLTRTVCAG GCARCKGPLP
	TDCCHEQCAA GCTGPKHSDC LACLHFNHSG

ICELHCPALVTYNTDTFESMPNPEGRYTFGASCVTACPYNYLSTDVGSCTLVCPLHNQEVTAEDGTQRCEKCSKPCARVCYGLGMEHLREVRAVTSANIQEFAGCKKIFGSLAFLPESFDGDPASNTAPLQPEQLQVFETLEEITGYLYISAWPDSLPDLSVFQNLQVIRGRILHNGAYSLTLQGLGISWLGLRSLRELGSGLALIHHNTHLCFVHTVPWDQLFRNPHQALLHTANRPEDECVGEGLACHQLCARGHCWGPGPTQCVNCSQFLRGQECVEECRVLQGLPREYNARHCLP

CHPECQPQNG SVTCFGPEAD QCVACAHYKD PPFCVARCPS GVKPDLSYMP IWKFPDEEGA CQPCPINCTH SCVDLDDKGC PAEQRASPLT

预 测分子量	70 kDa including tags
氨基酸	23 to 652
标签	His tag C-Terminus
额外的序列信息	Extracellular domain (AAA75493).
偶 联物	Biotin

技术指标

功能

Our Abpromise guarantee covers the use of ab200500 in the following tested applications.

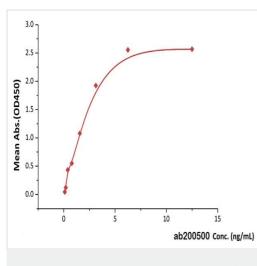
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

应用	Western blot
	ELISA
	SDS-PAGE
	Functional Studies
形式	Lyophilized
补充说明	The primary amine of ab200500 was chemically labeled by specially optimized long spacer biotin reagent for detection in ELISA, dot blot or western blot using streptavidin or avidin-conjugated probes to give superior sensitivity.
	The biotin to protein ratio is 1.5-3.5 as determined by the HABA assay.
制备和贮存	
稳定性和存储	Shipped at 4°C. Store at 4°C (stable for up to 12 months). Store at -20°C or -80°C. Avoid freeze / thaw cycle. For long term storage it is recommended to add a carrier protein on reconstitution (0.1% HSA or BSA).
	pH: 7.40 Constituents: PBS, 5% Trehalose
	Lyophilized from 0.22 µm filtered solution. 5-10% trehalose is commonly used for freeze drying, and after reconstitution, the trehalose is mostly about 3-5%
	This product is an active protein and may elicit a biological response in vivo, handle with caution.
复溶	Reconstitute with sterile deionized water to a concentration of 100 μ g/ml.
常规信息	

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

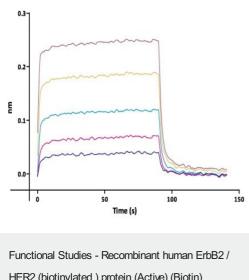
	of GSK3B at cell membrane. This prevents the phosphorylation of APC and CLASP2, allowing its association with the cell membrane. In turn, membrane-bound APC allows the localization of MACF1 to the cell membrane, which is required for microtubule capture and stabilization. In the nucleus is involved in 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.
组织 特异性	Expressed in a variety of tumor tissues including primary breast tumors and tumors from small bowel, esophagus, kidney and mouth.
疾病相关	Hereditary diffuse gastric cancer Glioma Ovarian cancer Lung cancer Gastric cancer 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.
序列相似性	Belongs to the protein kinase superfamily. Tyr protein kinase family. EGF receptor subfamily. Contains 1 protein kinase domain.
翻译后修 饰	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).
细胞定位	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.

图片



Functional Studies - Recombinant human ErbB2 / HER2 (biotinylated) protein (Active) (Biotin) (ab200500) Immobilized Trastuzumab at 3 $\mu\text{g/mL}$ (100 $\mu\text{L/well})$ binds ab200500.

Linear range: 0.1-3.1 ng/mL (QC tested).



Immobilized Herceptin on SA Biosensor via ab200500 binds Human FCGRT&B2M Heterodimer Protein, His Tag&Strep II Tag (SPR & BLI verified) with an affinity constant of 1.32 µM, as determined in BLI assay (Fortebio Octet 96) (Routinely tested).

Reduced ab200500 on SDS-PAGE, stained overnight with

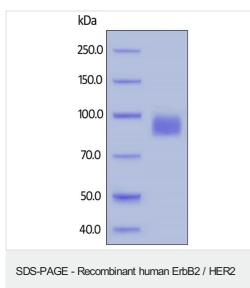
The protein migrates as 95-100 kDa under reducing conditions,

Coomassie Blue.

Purity of protein >95%.

due to glycosylation.

HER2 (biotinylated) protein (Active) (Biotin) (ab200500)



(biotinylated) protein (Active) (Biotin) (ab200500)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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