

HER2/CD340 Protein, Human (Biotinylated, HEK293, Fc-Avi)

Cat. No.:	HY-P72374		
Synonyms:	Proto-oncogene Neu; Tyrosine kinase-type cell surface receptor ERBB2; MLN19; NGL; TKR1		
Species:	Human		
Source:	HEK293		
Accession:	P04626 (T23-T652)		
Gene ID:	2064		
Molecular Weight:	120-140 kDa		

PROPERTIES

AA Sequence						
AA Sequence	ТQVСТGТDМК	LRLPASPETH	LDMLRHLYQG	CQVVQGNLEL		
	TYLPTNASLS	FLQDIQEVQG	YVLIAHNQVR	QVPLQRLRIV		
	RGTQLFEDNY	ALAVLDNGDP	LNNTTPVTGA	SPGGLRELQL		
	RSLTEILKGG	VLIQRNPQLC	YQDTILWKDI	FHKNNQLALT		
	LIDTNRSRAC	НРСЅРМСКGЅ	RCWGESSEDC	QSLTRTVCAG		
	GCARCKGPLP	Т С С Н Е Q С А А	G C T G P K H S D C	LACLHFNHSG		
	ICELHCPALV	TYNTDTFESM	PNPEGRYTFG	ΑSCVTACPYN		
	YLSTDVGSCT	LVCPLHNQEV	TAEDGTQRCE	KCSKPCARVC		
	YGLGMEHLRE	VRAVTSANIQ	EFAGCKKIFG	SLAFLPESFD		
	GDPASNTAPL	QPEQLQVFET	LEEITGYLYI	SAWPDSLPDL		
	SVFQNLQVIR	GRILHNGAYS	LTLQGLGISW	LGLRSLRELG		
	SGLALIHHNT	HLCFVHTVPW	DQLFRNPHQA	LLHTANRPED		
	ECVGEGLACH	QLCARGHCWG	PGPTQCVNCS	QFLRGQECVE		
	ECRVLQGLPR	EYVNARHCLP	СНРЕСQРQNG	SVTCFGPEAD		
	QCVACAHYKD	PPFCVARCPS	GVKPDLSYMP	IWKFPDEEGA		
	СQРСРІМСТН	SCVDLDDKGC	PAEQRASPLT			
Biological Activity	Immobilized Anti-Human HER2 mAb at 2 μg/mL (100 μl/well) can bind Human HER2-Fc-Avi. The ED ₅₀ of Human HER2-Fc-Avi is <3.07 ng/mL.					
Appearance	Lyophilized powder.					
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.					
Endotoxin Level	<1 EU/µg, determined by LAL method.					
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).					
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.					

Shipping

Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background

HER2/CD340 Protein, a dynamic protein tyrosine kinase, stands as a pivotal component within diverse cell surface receptor complexes, requiring a coreceptor for efficient ligand binding. Crucially, it plays an indispensable role as part of the neuregulin-receptor complex, with GP30 identified as a potential ligand for this receptor. Beyond its receptor functions, HER2/CD340 Protein intricately regulates the outgrowth and stabilization of peripheral microtubules (MTs). Upon activation, the MEMO1-RHOA-DIAPH1 signaling pathway, initiated by ERBB2 activation, orchestrates the phosphorylation and subsequent inhibition of GSK3B at the cell membrane. This strategic inhibition prevents the phosphorylation of APC and CLASP2, facilitating their association with the cell membrane. Notably, membrane-bound APC enables the localization of MACF1 to the cell membrane, a prerequisite for microtubule capture and stabilization. Within the nucleus, HER2/CD340
Protein is actively involved in transcriptional regulation, associating with the 5'-TCAAATTC-3' sequence in the PTGS2/COX-2 promoter to activate transcription. Furthermore, its engagement in the transcription of rRNA genes by RNA Pol I enhances protein synthesis, contributing to overall cell growth. The multifaceted activities of HER2/CD340 Protein underscore its central role in orchestrating diverse cellular processes, ranging from receptor signaling to microtubule dynamics and transcriptional regulation.

Caution: Product has not been fully validated for medical applications. For research use only.

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