

## Human EGFR2 Antibody Pair Set

<b>Catalog No.</b>	E-KAB-0458	<b>Applications</b>	ELISA
<b>Synonyms</b>	ERBB2;HER2;CD340;p185;MLN 19;NEU		

### Kit components & Storage

Title	Specifications	Storage
Human EGFR2 Capture Antibody	1 vial, 100 µg	Store at -20℃ for one year. Avoid freeze/thaw cycles.
Human EGFR2 Detection Antibody (Biotin)	1 vial, 50 µL	Store at -20℃ for one year. Avoid freeze/thaw cycles.

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

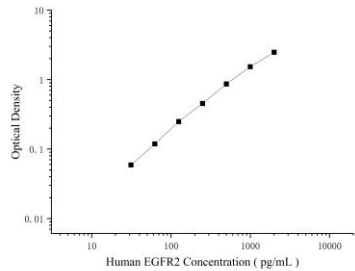
### Product Information

Items		Characteristic (E-KAB-0458)	
		Human EGFR2 Capture Antibody	Human EGFR2 Detection Antibody (Biotin)
Immunogen Information	Immunogen	Recombinant Human EGFR2 protien	Recombinant Human EGFR2 protien
	Swissprot	P04626	
Product details	Reactivity	Human	Human
	Host	Rabbit	Rabbit
	Conjugation	Unconjugated	Biotin
	Concentration	0.5 mg/mL	/
	Buffer	PBS with 0.04% Proclin 300; 50% glycerol; pH 7.5	PBS with 0.04% Proclin 300; 1% protective protein; 50% glycerol; pH 7.5
	Purify	Protein A or G	Protein A or G
	Specificity	Detects Human EGFR2 in ELISAs.	

### For Research Use Only

## Applications

### Human EGFR2 Sandwich ELISA Assay

	Recommended Concentration/Dilution	Reagent	Images
ELISA Capture	0.5-4 µg/mL	Human EGFR2 Capture Antibody	
ELISA Detection	1:1000-1:10000	Human EGFR2 Detection Antibody (Biotin)	

**Note:** This standard curve is only for demonstration purposes. A standard curve should be generated for each assay!

## 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. 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.

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