

## Human EGFR Antibody Pair Set

<b>Catalog No.</b>	E-KAB-0024	<b>Applications</b>	ELISA
<b>Synonyms</b>	ErbB-1, ErbB1,ERBB, HER1, mENA		

### Kit components & Storage

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

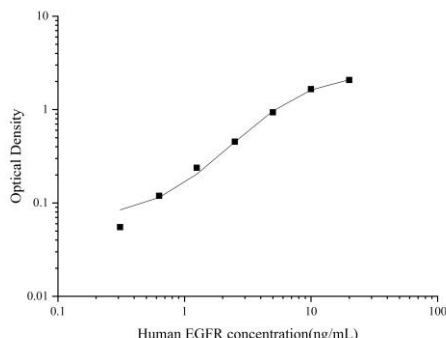
**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

### Product Information

Items		Characteristic (E-KAB-0024)	
		Human EGFR Capture Antibody	Human EGFR Detection Antibody (Biotin)
Immunogen Information	Immunogen	Recombinant Human EGFR protein	Recombinant Human EGFR protein
	Swissprot	P00533	
Product details	Reactivity	Human	Human
	Host	Goat	Goat
	Conjugation	Unconjugated	Biotin
	Concentration	0.5mg/mL	/
	Buffer	PBS with 0.04% Proclin 300, 50% glycerol, pH 7.4	PBS with 0.04% Proclin 300, 1% protective protein, 50% glycerol, pH 7.4
	Purify	Antigen Affinity	Antigen Affinity
	Specificity	Detects Human EGFR in ELISAs.	

## Applications

### Human EGFR Sandwich ELISA Assay:

	Recommended Concentration/Dilution	Reagent	Images																
ELISA Capture	0.5-4µg/mL	Human EGFR Capture Antibody	 <table border="1"> <caption>Approximate data points from the standard curve</caption> <thead> <tr> <th>Human EGFR concentration (ng/mL)</th> <th>Optical Density</th> </tr> </thead> <tbody> <tr><td>0.2</td><td>0.05</td></tr> <tr><td>0.5</td><td>0.1</td></tr> <tr><td>1</td><td>0.2</td></tr> <tr><td>2</td><td>0.4</td></tr> <tr><td>5</td><td>0.8</td></tr> <tr><td>10</td><td>1.5</td></tr> <tr><td>20</td><td>2.5</td></tr> </tbody> </table>	Human EGFR concentration (ng/mL)	Optical Density	0.2	0.05	0.5	0.1	1	0.2	2	0.4	5	0.8	10	1.5	20	2.5
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ELISA Detection	1:1000-1:10000	Human EGFR Detection Antibody (Biotin)																	

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

## Background

EGFR, also named as ERBB1, is a cell-surface receptor for members of the epidermal growth factor family (EGF-family) of extracellular protein ligands. Binding of the protein to a ligand induces receptor dimerization and tyrosine autophosphorylation and leads to cell proliferation. The gene resides on chromosome 7p12, encoding a 170 kDa membrane-associated glycoprotein. Recent studies have shown EGFR plays a critical role in cancer development and progression, including cell proliferation, apoptosis, angiogenesis, and metastatic spread. Mutations in this gene are associated with lung cancer.