

Mouse EGFR Antibody Pair Set

Catalog No.	E-KAB-0314	Applications	ELISA
Synonyms	ErbB-1, ErbB1,ERBB, mENA		

Kit components & Storage

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

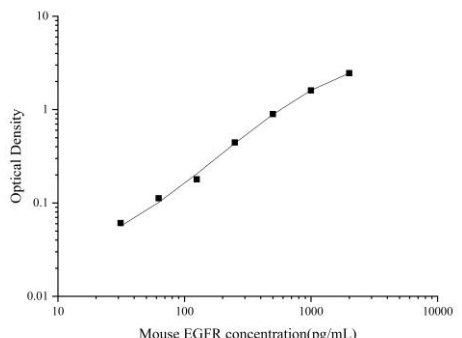
Note: Centrifuge before opening to ensure complete recovery of vial contents.

Product Information

Items		Characteristic (E-KAB-0314)	
		Mouse EGFR Capture Antibody	Mouse EGFR Detection Antibody (Biotin)
Immunogen Information	Immunogen	Recombinant Mouse EGFR protein	Recombinant Mouse EGFR protein
	Swissprot	Q01279	
Product details	Reactivity	Mouse	Mouse
	Host	Rabbit	Rabbit
	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	Protein A & Antigen Affinity	Protein A & Antigen Affinity
	Specificity	Detects Mouse EGFR in ELISAs.	

Applications

Mouse EGFR Sandwich ELISA Assay:

	Recommended Concentration/Dilution	Reagent	Images										
ELISA Capture	0.5-4µg/mL	Mouse EGFR Capture Antibody	 <p>The graph displays a standard curve for the Mouse EGFR Sandwich ELISA Assay. The y-axis represents Optical Density on a logarithmic scale from 0.01 to 10. The x-axis represents Mouse EGFR concentration in pg/mL on a logarithmic scale from 10 to 10000. The data points form a straight line, indicating a linear relationship between the concentration of Mouse EGFR and the resulting optical density.</p> <table border="1"> <caption>Approximate data points from the standard curve</caption> <thead> <tr> <th>Mouse EGFR concentration (pg/mL)</th> <th>Optical Density</th> </tr> </thead> <tbody> <tr> <td>10</td> <td>0.05</td> </tr> <tr> <td>100</td> <td>0.15</td> </tr> <tr> <td>1000</td> <td>0.5</td> </tr> <tr> <td>10000</td> <td>1.5</td> </tr> </tbody> </table>	Mouse EGFR concentration (pg/mL)	Optical Density	10	0.05	100	0.15	1000	0.5	10000	1.5
Mouse EGFR concentration (pg/mL)	Optical Density												
10	0.05												
100	0.15												
1000	0.5												
10000	1.5												
ELISA Detection	1:1000-1:10000	Mouse 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.