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**Product Name: EGFR mutant Mouse Monoclonal Antibody****Catalog #: AMM83084**

For research use only.

**Summary**

<b>Description</b>	Mouse monoclonal Antibody
<b>Host</b>	Mouse
<b>Application</b>	IHC,ELISA,FC
<b>Reactivity</b>	Human
<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Unmodified
<b>Isotype</b>	Mouse IgG1
<b>Clonality</b>	Monoclonal
<b>Form</b>	Liquid
<b>Concentration</b>	1mg/ml
<b>Storage</b>	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
<b>Shipping</b>	Ice bags
<b>Buffer</b>	PBS containing 0.03% sodium azide.
<b>Purification</b>	Affinity Purification

**Application**

<b>Dilution Ratio</b>	IHC 1:200-1:1000,ELISA 1:5000-1:20000,FC 1:200-1:400
<b>Molecular Weight</b>	175kDa

**Antigen Information**

<b>Gene Name</b>	EGFR mutant
<b>Alternative Names</b>	ERBB; HER1; mENA; ERBB1; PIG61
<b>Gene ID</b>	1956.0
<b>SwissProt ID</b>	P00533
<b>Immunogen</b>	Purified recombinant fragment of human EGFR mutant (AA: 693-893) expressed in E. Coli.

**Background**

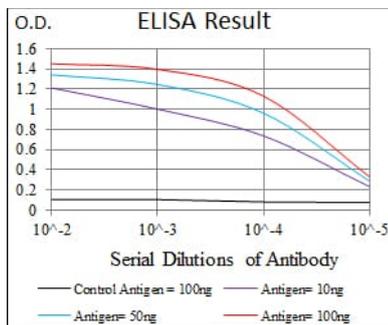
The protein encoded by this gene is a transmembrane glycoprotein that is a member of the protein kinase superfamily. This protein is a receptor for members of the epidermal growth factor family. EGFR is a cell surface protein that binds to epidermal growth factor. Binding of the protein to a ligand induces receptor dimerization and tyrosine autophosphorylation and leads to

cell proliferation. Mutations in this gene are associated with lung cancer. Multiple alternatively spliced transcript variants that encode different protein isoforms have been found for this gene.

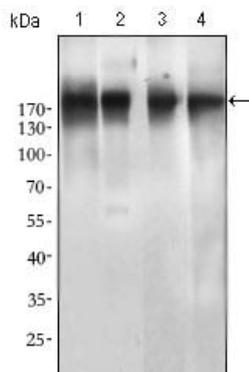
## Research Area

TGF-beta signaling pathway, PI3K-Akt signaling pathway, MAPK signaling pathway, Jak-STAT signaling pathway, Hippo signaling pathway

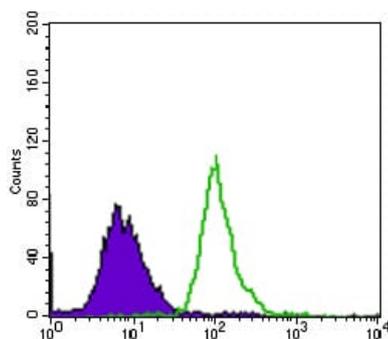
## Image Data



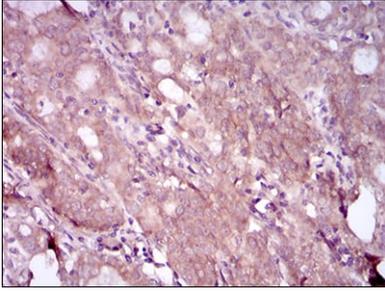
Black line: Control Antigen (100 ng); Purple line: Antigen(10ng); Blue line: Antigen (50 ng); Red line: Antigen (100 ng);



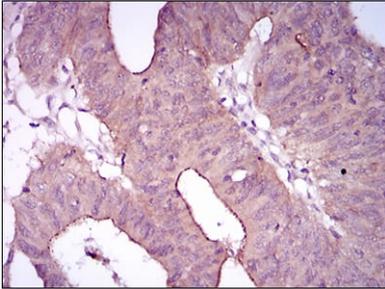
Western blot analysis using EGFR mutant mouse mAb against SPC-A-1 (1), A549 (2), HepG2 (3) and MCF-7 (4) cell lysate.



Flow cytometric analysis of HepG2 cells using EGFR mutant mouse mAb (green) and negative control (purple).



Immunohistochemical analysis of paraffin-embedded human cervical cancer tissues using EGFR mutant mouse mAb with DAB staining.



Immunohistochemical analysis of paraffin-embedded human rectum cancer tissues using EGFR mutant mouse mAb with DAB staining.