

EGFR (Epidermal Growth Factor Receptor) Antibody

Mouse Monoclonal Antibody [Clone 225]

Catalog No	Format	Size
1956-MSM39-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
1956-MSM39-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
1956-MSM39-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

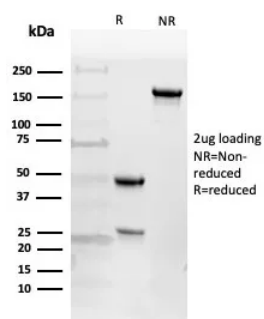
Applications	Tested Dillution	Note
Immunofluorescence (IF)	1-3ug/ml	
Western Blot (WB)	2-4ug/ml	

Product Details

Clone	225
Gene Name	EGFR
Immunogen	Purified EGFR from A431 cells
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG2b / Kappa
Mol. Weight of Antigen	~170kDa (wild type) and ~145kDa (vIII variant)
Cellular Localization	Cell surface.
Species Reactivity	Human, Mouse, Non-Human primates
Positive Control	A431 cells.

*Optimal dilution for a specific application should be determined.

Product Images for EGFR (Epidermal Growth Factor Receptor) Antibody



SDS-PAGE Analysis of Purified EGFR Mouse Monoclonal Antibody (225).
Confirmation of Purity and Integrity of Antibody.

Specificity & Comments

EGFR (Epidermal growth factor receptor, HER1, ErbB1) is encoded by the EGFR gene located on chromosome 7 in humans. EGFR belongs to the HER /ERbB family of proteins that includes three other receptor tyrosine kinases, ERbB2, ERbB3, ERbB4. EGFR is a transmembrane receptor and binding of its cognate ligands such as EGF (Epidermal Growth Factor) and TGF alpha (Transforming Growth Factor alpha) to the extracellular domain leads to EGFR dimerization followed by autophosphorylation of the tyrosine residues in the cytoplasmic domain. Phosphorylation of EGFR at certain residues is also mediated by Src-non-receptor kinase. EGFR activation signals multiple downstream signaling cascades such as the Ras - ERK, PI3-K - Akt, Jak - STAT and PKC pathways that help in growth and proliferation of cells. Phosphorylation of EGFR at Y1086 specifically allows binding of the adaptor protein GRB2, leading to activation of the MAPK pathway. Upon receptor activation and signaling, EGFR is endocytosed and targeted for degradation or recycling. Mutations in the EGFR gene are associated with lung cancer and multiple alternatively spliced transcript variants encode different protein isoforms of EGFR have been found. Increased production or activation of EGFR has been associated with poor prognosis in a variety of tumors. Moreover, EGFR overexpression is observed in tumors of the head and neck, brain, bladder, stomach, breast, lung, endometrium, cervix, vulva, ovary, esophagus, stomach and in squamous cell carcinoma.

Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis. There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.

Supplied As

200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1mg/ml.

Storage and Stability

Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Research Areas

AKT Signaling, Bladder Cancer, Breast Cancer, Cardiovascular, Colon Cancer, Developmental Biology, Infectious Disease, MAPK Signaling, Signal Transduction, Transcription Factors