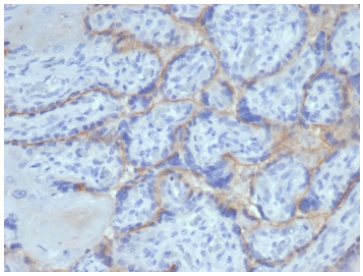
EGF Receptor / EGFR Antibody / Extracellular domain [clone rEGFR/6389] (V9273)

Catalog No.	Formulation	Size
V9273-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V9273-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V9273SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

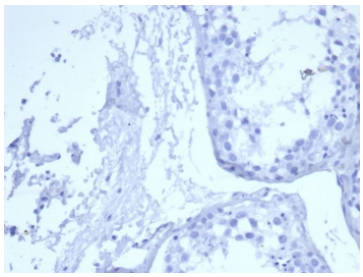
Recombinant | MOUSE MONOCLONAL

Bulk quote request

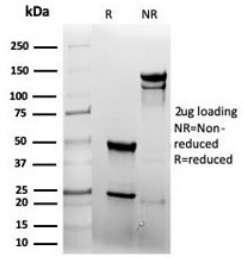
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Recombinant Mouse Monoclonal
Isotype	Mouse IgG2a, kappa
Clone Name	rEGFR/6389
Purity	Protein A/G affinity
UniProt	P00533
Localization	Cell Surface
Applications	Immunohistochemistry (FFPE) : 1-2ug/ml
Limitations	This recombinant EGF Receptor antibody is available for research use only.



IHC staining of FFPE human placental tissue with recombinant EGF Receptor antibody (clone rEGFR/6389). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



Negative control: IHC staining of FFPE human testis tissue with recombinant EGF Receptor antibody (clone rEGFR/6389) at 2ug/ml in PBS for 30min RT. HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



SDS-PAGE analysis of purified, BSA-free recombinant EGF Receptor antibody (clone rEGFR/6389) as confirmation of integrity and purity.

Description

EGF Receptor Antibody recognizes Epidermal growth factor receptor, a membrane-spanning receptor tyrosine kinase that mediates cellular responses to epidermal growth factor and related ligands. Epidermal growth factor receptor, also widely referred to as EGFR, ErbB1, and HER1, functions as a key regulator of epithelial cell growth, survival, and differentiation through ligand-induced receptor activation. EGF Receptor Antibody is used in research settings to examine receptor expression and distribution in normal tissues and disease models where growth factor signaling is biologically relevant. The EGF receptor protein is predominantly localized to the plasma membrane, consistent with its role in ligand binding and signal initiation.

Epidermal growth factor receptor is encoded by the EGFR gene and undergoes dimerization and autophosphorylation following ligand engagement, leading to activation of downstream signaling pathways including MAPK, PI3K-AKT, and STAT cascades. These pathways coordinate cellular proliferation, survival, and adaptive responses to environmental cues. EGF Receptor Antibody enables investigation of EGFR expression levels and cellular localization, supporting studies of growth factor-driven signaling networks and epithelial biology across diverse experimental systems.

Dysregulation of EGF receptor signaling is a central feature of multiple cancers, where overexpression, amplification, or mutation of EGFR contributes to uncontrolled cell growth and altered differentiation. As a result, Epidermal growth factor receptor is extensively studied in oncology-focused research involving lung, colorectal, head and neck, and brain tumors. EGF Receptor Antibody supports research into receptor-associated tumor biology, comparative expression analysis, and signaling pathway alterations without implying clinical or diagnostic use.

Beyond cancer biology, EGFR signaling also plays important roles in tissue development, regeneration, and wound repair. Modulation of EGF receptor activity influences epithelial maintenance and response to injury in multiple organ systems. EGF Receptor Antibody provides a valuable tool for examining EGFR expression patterns and membrane-associated signaling behavior in both normal and disease-related research contexts. Clone rEGFR/6389 is designed to recognize Epidermal growth factor receptor and may be applied to studies of growth factor signaling, receptor biology, and epithelial cell regulation.

Application Notes

Optimal dilution of the recombinant EGF Receptor antibody should be determined by the researcher.

Immunogen

Amino acids 25-645 from the extracellular domain of the human protein were used as the immunogen for the recombinant

EGF Receptor antibody.

Storage

Aliquot the recombinant EGF Receptor antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.