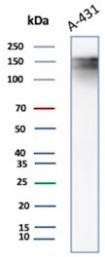
Epidermal Growth Factor Receptor Antibody / EGFR [clone EGFR/8933R] (V5197)

Catalog No.	Formulation	Size
V5197-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V5197-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V5197SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

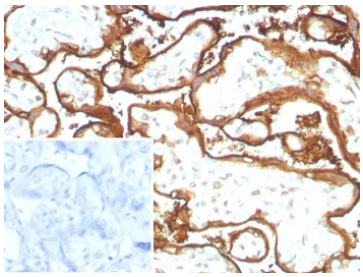
Recombinant RABBIT MONOCLONAL

Bulk quote request

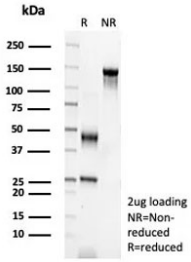
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG, kappa
Clone Name	EGFR/8933R
Purity	Protein A/G affinity
UniProt	P00533
Localization	Cell Surface
Applications	Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT Western Blot : 2-4ug/ml
Limitations	This Epidermal Growth Factor Receptor antibody is available for research use only.



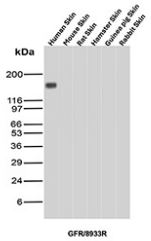
Western blot testing of A431 lysate using Epidermal Growth Factor Receptor antibody. Expected molecular weight: 134-180 kDa depending on glycosylation level.



IHC staining of FFPE human placental tissue with Epidermal Growth Factor Receptor antibody (clone EGFR/8933R). 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 Epidermal Growth Factor Receptor antibody (clone EGFR/8933R) as confirmation of integrity and purity.



Western blot analysis of skin tissue lysates from multiple species using EGFR/Epidermal Growth Factor Receptor antibody (clone EGFR/8933R). A prominent band is detected in human skin at approximately 170-180 kDa, consistent with the predicted molecular weight of full-length Epidermal growth factor receptor and its commonly observed apparent migration on SDS-PAGE.

Description

Epidermal Growth Factor Receptor Antibody recognizes Epidermal growth factor receptor, a transmembrane receptor tyrosine kinase that plays a central role in regulating cell proliferation, survival, migration, and differentiation. EGFR is a member of the ErbB receptor family and is activated through ligand binding followed by receptor dimerization and autophosphorylation of intracellular tyrosine residues. Epidermal Growth Factor Receptor Antibody is widely used in research settings to evaluate EGFR expression patterns and signaling activity in epithelial-derived tissues and disease models.

Epidermal growth factor receptor is encoded by the EGFR gene and is predominantly localized to the cell membrane, with ligand-induced internalization into endosomal compartments following activation. It is broadly expressed in epithelial tissues including skin, lung, gastrointestinal tract, and glandular epithelia. Tight regulation of EGFR signaling is required for normal tissue homeostasis, as excessive or prolonged activation can drive abnormal cell growth and survival signaling pathways.

Dysregulation of EGFR expression or signaling is strongly associated with oncogenic transformation and tumor progression. Overexpression, amplification, or activating mutations of EGFR have been documented in multiple cancer types, including carcinomas of the lung, colon, head and neck, and skin. Because of this, Epidermal Growth Factor Receptor Antibody is frequently applied in cancer biology research to study receptor abundance, cellular localization, and pathway activation in tumor versus normal tissues.

Beyond oncology, EGFR also contributes to wound healing, epithelial regeneration, and developmental signaling processes. Epidermal Growth Factor Receptor Antibody supports investigations into receptor-mediated signaling cascades such as MAPK, PI3K-AKT, and JAK-STAT pathways, enabling detailed analysis of EGFR biology in both physiological and pathological research applications.

Application Notes

Optimal dilution of the Epidermal Growth Factor Receptor antibody should be determined by the researcher.

Immunogen

A recombinant partial protein sequence (within amino acids 300-500) from the human protein was used as the immunogen for the Epidermal Growth Factor Receptor antibody.

Storage

Aliquot the Epidermal Growth Factor Receptor antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

Ordering: Phone: 858.663.9055 | Fax: 1.267.821.0800 | Email: info@nsjbio.com