

## EGFRvIII Antibody HRP Conjugated

Catalog No: #C04189H

Orders: [order@signalwayantibody.com](mailto:order@signalwayantibody.com)Support: [tech@signalwayantibody.com](mailto:tech@signalwayantibody.com)

## Description

Product Name	EGFRvIII Antibody HRP Conjugated
Host Species	Rabbit
Clonality	Polyclonal
Isotype	IgG
Purification	Purified by Protein A.
Applications	WBB B IHC-PB IHC-F
Species Reactivity	Hu
Immunogen Description	KLH conjugated synthetic peptide aa 1-50 1081 derived from human EGFRvIII
Conjugates	HRP
Target Name	EGFRvIII
Other Names	ERBB; HER1; mENA; ERBB1; PIG61; NISBD2; Epidermal growth factor receptor; Proto-oncogene c-ErbB-1; Receptor tyrosine-protein kinase erbB-1; EGFR
Accession No.	Swiss-Prot#P00533NCBI Gene ID1956
Uniprot	P00533
GeneID	1956;
Excitation Emission	N A
Cell Localization	Extracellular
Concentration	1mg/ml
Formulation	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

## Application Details

WB=1:500-2000 IHC-P=1:50-200 IHC-F=1:50-200

## Background

Receptor tyrosine kinase binding ligands of the EGF family and activating several signaling cascades to convert extracellular cues into appropriate cellular responses. Known ligands include EGF, TGFA TGF-alpha, amphiregulin, epigen EPGN, BTC betacellulin, epiregulin EREG and HBEGF heparin-binding EGF. Ligand binding triggers receptor homo- and or heterodimerization and autophosphorylation on key cytoplasmic residues. The phosphorylated receptor recruits adapter proteins like GRB2 which in turn activates complex downstream signaling cascades. Activates at least 4 major downstream signaling cascades including the RAS-RAF-MEK-ERK, PI3 kinase-AKT, PLCgamma-PKC and STATs modules. May also activate the NF-kappa-B signaling cascade. Also directly phosphorylates other proteins like RGS16, activating its GTPase activity and probably coupling the EGF receptor signaling to the G protein-coupled receptor signaling. Also phosphorylates MUC1 and increases its interaction with SRC and CTNNB1 beta-catenin. Isoform 2 may act as an antagonist of EGF action.

Note: This product is for in vitro research use only