Receptor tyrosine-protein kinase erbB-2 Polyclonal Antibody

Catalog No: #42510

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Support: tech@signalwayantibody.com

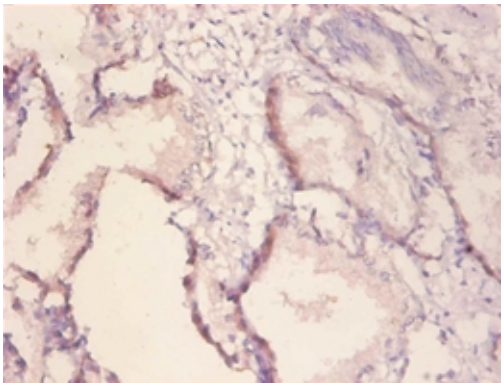
Description

Product Name	Receptor tyrosine-protein kinase erbB-2 Polyclonal Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Caprylic Acid Ammonium Sulfate Precipitation purified
Applications	IHC
Species Reactivity	Hu
Specificity	The antibody detects endogenous level of total Receptor tyrosine-protein kinase erbB-2 polyclonal antibody.
Immunogen Type	protein
Immunogen Description	Recombinant human Receptor tyrosine-protein kinase erbB-2 protein
Target Name	Receptor tyrosine-protein kinase erbB-2
Other Names	Metastatic lymph node gene 19 protein, Proto-oncogene Neu, Proto-oncogene c-ErbB-2, Tyrosine kinase-type cell surface receptor HER2, p185erbB2, CD_antigen, ERBB2, HER2, MLN19, NEU, NGL
Accession No.	Swiss-Prot#: P04626
Uniprot	P04626
GeneID	2064;
Formulation	Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, PH 7.4
Storage	Store at -20°C

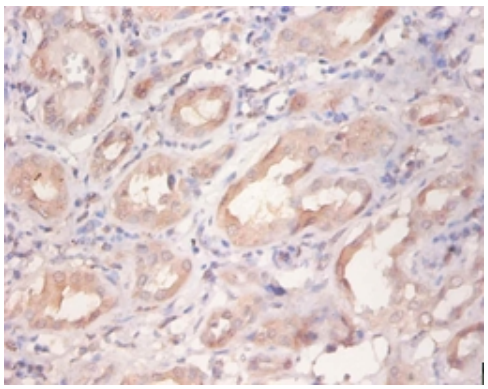
Application Details

Immunohistochemistry: 1:20 - 1:200

Images



Immunohistochemical analysis of paraffin-embedded human prostate using #42510 at dilution of 1:100.



Immunohistochemical analysis of paraffin-embedded human kidney using #42510 at dilution of 1:100.

Background

Protein tyrosine kinase that is part of several cell surface receptor complexes, but that apparently needs a coreceptor for ligand binding. Essential component of a neuregulin-receptor complex, although neuregulins do not interact with it alone. GP30 is a potential ligand for this receptor. Regulates outgrowth and stabilization of peripheral microtubules (MTs). Upon ERBB2 activation, the MEMO1-RHOA-DIAPH1 signaling pathway elicits the phosphorylation and thus the inhibition of GSK3B at cell membrane. This prevents the phosphorylation of APC and CLASP2, allowing its association with the cell membrane. In turn, membrane-bound APC allows the localization of MACF1 to the cell membrane, which is required for microtubule capture and stabilization.

References

[1] "Similarity of protein encoded by the human c-erb-B-2 gene to epidermal growth factor receptor." Yamamoto T., Ikawa S., Akiyama T., Semba K., Nomura N., Miyajima N., Saito T., Toyoshima K.Nature 319:230-234(1986) [2] "Tyrosine kinase receptor with

Note: This product is for in vitro research use only