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#3732

GP130 Antibody

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	H M R Mk	Endogenous	130	Rabbit	#P40189	3572

Product Usage Information

Application

Western Blotting

Dilution

1:1000

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

GP130 Antibody detects endogenous levels of total GP130 protein independent of phosphorylation.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to the sequence of human GP130. Antibodies are purified by protein A and peptide affinity chromatography.

Background

GP130 is a signal-transducing subunit shared by the receptors for the interleukin-6 (IL-6) family of cytokines (1-3). The binding of a ligand to its receptor induces the dimerization of GP130, leading to activation of the Jak tyrosine kinase and to tyrosine phosphorylation of GP130. These events lead to the activation of multiple signal-transduction pathways, such as the Stat, Ras-MAPK, and PI3 kinase pathways, whose activation is controlled by distinct regions of GP130 (4-7).

Background References

1. Taga, T. (1996) *J. Neurochem.* 67, 1-10.
2. Taga, T. (1997) *Ann. Med.* 29, 63-72.
3. Taga, T. and Kishimoto, T. (1997) *Annu. Rev. Immunol.* 15, 797-819.
4. Heinrich, P.C. et al. (1998) *Biochem. J.* 334, 297-314.
5. Ihle, J.N. et al. (1994) *Trends Biochem. Sci.* 19, 222-227.
6. Kurth, I. et al. (1999) *J. Immunol.* 162, 1480-1487.
7. Paonessa, G. et al. (1995) *EMBO J.* 14, 1942-1951.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting

Cross-Reactivity Key

H: Human **M:** Mouse **R:** Rat **Mk:** Monkey

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