

GP130 Antibody

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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 GP130 dimerization, leading to Jak tyrosine kinase activation and GP130 tyrosine phosphorylation. 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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