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#3432

Cytokine Receptor Common beta-Chain 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 Mi	Endogenous	100	Rabbit	#P32927	1439

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

Cytokine Receptor Common beta-Chain Antibody detects endogenous levels of total cytokine receptor common beta-chain protein independent of phosphorylation.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to the carboxy terminus of human cytokine receptor common beta-chain. Antibodies are purified by protein A and peptide affinity chromatography.

Background

The common beta-chain (beta-c) of the granulocyte-macrophage colony-stimulating factor (GM-CSF), interleukin-3 (IL-3), and IL-5 receptors is the major signaling subunit of these receptors, coupling ligand binding to multiple biological activities (1-3). Tyrosine phosphorylation of cytokine receptor common beta-chain is one of the first events in GM-CSF, IL-3, and IL-5 receptor activation and in signaling initiation (4). Serine phosphorylation within the 14-3-3 binding sequence of the common beta-chain is also involved in GM-CSF, IL-3, and IL-5 receptor-specific functions (5,6).

Background References

1. Kitamura, T. et al. (1991) *Cell* 66, 1165-74.
2. Tavernier, J. et al. (1991) *Cell* 66, 1175-1184.
3. Hayashida, K. et al. (1990) *Proc. Natl. Acad. Sci. USA* 87, 9655-9659.
4. Muto, A. et al. (1996) *J. Exp. Med.* 183, 1911-1926.
5. Stomski, F.C. et al. (1999) *Blood* 94, 1933-42.
6. Guthridge, M.A. et al. (2000) *Mol. Cell* 6, 99-108.

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 **Mi:** Mink

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