

Store at -20C
#3432

Cytokine Receptor Common beta-Chain Antibody



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

Applications: WB	Reactivity: H M R Mk Mi	Sensitivity: Endogenous	MW (kDa): 100	Source: Rabbit	UniProt ID: #P32927	Entrez-Gene Id: 1439
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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	<ol style="list-style-type: none"> 1. Kitamura, T. et al. (1991) <i>Cell</i> 66, 1165-74. 2. Tavernier, J. et al. (1991) <i>Cell</i> 66, 1175-1184. 3. Hayashida, K. et al. (1990) <i>Proc. Natl. Acad. Sci. USA</i> 87, 9655-9659. 4. Muto, A. et al. (1996) <i>J. Exp. Med.</i> 183, 1911-1926. 5. Stomski, F.C. et al. (1999) <i>Blood</i> 94, 1933-42. 6. Guthridge, M.A. et al. (2000) <i>Mol. Cell</i> 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	WB: Western Blotting
Cross-Reactivity Key	H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected
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