Mouse IL-17 RB PE-conjugated Antibody



Monoclonal Rat IgG₁ Clone # 752101

Catalog Number: FAB10402P 100 TESTS, 25 TESTS

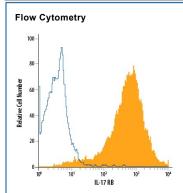
DESCRIPTION			
Species Reactivity	Mouse		
Specificity	Detects mouse IL-17 RB in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant human (rh) IL-17 RB, rhIL-17 R, or recombinant mouse IL-17 is observed.		
Source	Monoclonal Rat IgG ₁ Clone # 752101		
Purification	Protein A or G purified from hybridoma culture supernatant		
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse IL-17 RB Arg18-Gly286 Accession # Q9JIP3		
Conjugate	Phycoerythrin Excitation Wavelength: 488 nm Emission Wavelength: 565-605 nm		
Formulation	Supplied in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details.		
	*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.		

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Flow Cytometry	10 μL/10 ⁶ cells	See Below

DATA



Detection of IL-17 RB in CHO Chinese Hamster Cell Line Transfected with Mouse IL-17 RB by Flow Cytometry. CHO Chinese hamster ovary cell line transfected with mouse IL-17 RB was stained with Rat Anti-Mouse IL-17 RB PE-conjugated Monoclonal Antibody (Catalog # FAB10402P, filled histogram) or isotype control antibody (Catalog # IC005P, open histogram). View our protocol for Staining Membraneassociated Proteins.

PREPARATION AND STORAGE

Shipping The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

Stability & Storage

Protect from light. Do not freeze.

• 12 months from date of receipt, 2 to 8 °C as supplied.



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100 TESTS, 25 TESTS

BACKGROUND

The Interleukin 17 (IL-17) family of cytokines, comprising six members (IL-17, IL-17B through IL-17F), are structurally related proteins with a conserved cysteine-knot structure. These proinflammatory cytokines can induce local cytokine production and are involved in the regulation of the immune response. The cognate receptors activated by some of these cytokines have been identified (1, 2). Interleukin-17B Receptor (IL-17 RB), also known as IL-17 Rh1, IL-17E R and EVI27, represents the second receptor of the IL-17 family cytokines to be recognized (2–4). Mouse IL-17 RB cDNA encodes a 499 amino acid (aa) type I membrane protein with a putative 17 aa signal peptide, a 269 aa extracellular domain, a 21 aa transmembrane domain and a 192 aa cytoplasmic tail. As a result of alternative splicing, a secreted variant of IL-17 RB also exists (5). Human and mouse IL-17 RB share 76% aa sequence identity. IL-17 RB is approximately 20% identical to the human and mouse IL-17 R. However, the receptors share many conserved cysteine residues within their extracellular domains as well as additional conserved elements within their cytoplasmic domains. At least three additional type I transmembrane receptors with homology to IL-17 R, including IL-17 RL (IL-17 RC), IL-17 RD, and IL-17 RE, have been reported (2, 6). By Northern blot analysis, mouse IL-17 RB is highly expressed in liver and testes and is expressed at lower levels in kidney and lung. It is also expressed in some hematopoietic cell lines, including selected T cell, B cell, and myeloid cell lines (2–4). The expression of IL-17 RB is significantly upregulated under inflammatory conditions (7). IL-17 RB binds strongly to IL-17E and weakly to IL-17B. It does not bind IL-17 or IL-17F. Activation of IL-17 RB by its ligands results in the activation of nuclear factor kappa-B (2–4).

References:

- 1. Aggarwal, S. and A.L. Gurney (2002) J. Leukoc. Biol. 71:1.
- 2. Moseley, T.A. et al. (2003) Cytokine & Growth Factor Rev. 14:155.
- 3. Shi, Y. et al. (2000) J. Biol. Chem. 275:19167.
- 4. Lee, J. et al. (2001) J. Biol. Chem. 276:1660.
- Tian, E. et al. (2000) Oncogene 19:2098.
- Haudenschild, D. et al. (2002) J. Biol. Chem. 277:4309.
- 7. Hurst, S.D. et al. (2002) J. Immunol. 169:443.

