

Human IL-22BP Alexa Fluor® 750-conjugated Antibody

Monoclonal Mouse IgG_{2B} Clone # 875504

Catalog Number: FAB10871S

DESCRIPTION			
Species Reactivity	Human		
Specificity	Detects human IL-22BP in direct ELISAs. In direct ELISAs, no cross-reactivity with mouse IL-22BP is observed.		
Source	Monoclonal Mouse IgG _{2B} Clone # 875504		
Purification	Protein A or G purified from hybridoma culture supernatant		
Immunogen	Mouse myeloma cell line NS0-derived recombinant human IL-22BP Thr22-Pro263 Accession # Q969J5		
Conjugate	Alexa Fluor 750 Excitation Wavelength: 749 nm Emission Wavelength: 775 nm		
Formulation	Supplied 0.2 mg/mL 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	
Intracellular Staining by Flow Cytometry	0.25-1 μg/10 ⁶ cells	Human peripheral blood mononuclear cell (PBMC) monocytes fixed with Flow Cytometry Fixation Buffer (Catalog # FC004) and permeabilized with Flow Cytometry Permeabilization/Wash Buffer I (Catalog # FC005)	

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.

BACKGROUND

Interleukin 22 Binding Protein (IL-22BP), also known as Cytokine Receptor Family (CRF) 2-10, CRF2-X, and IL-22 RA2, is a secreted glycoprotein belonging to the type II cytokine receptor family. It encodes a precursor protein of 231 amino acid (aa) residues with a 21 aa putative signal peptide and five potential N-linked glycosylation sites. IL-22BP lacks a transmembrane and cytoplasmic domain and is most closely related to the extracellular domains of IL-22 R (CRF2-9) and IL-20 R (CRF2-8), sharing 33% and 34% aa sequence identity, respectively. It also shares sequence homology with the extracellular domains of IL-10 R (29%), IL-10 Rβ (30%), the IFN receptors (23-25%) and tissue factor (26%). IL-22BP antagonizes IL-22 activity by specifically binding IL-22 with high affinity and blocking its interaction with the cell surface IL-22 receptor heteromeric complex composed IL-22 R and IL-20 R. IL-22BP is expressed in multiple tissues. The highest levels of expression are found in breast, lungs and colon. The major cell types producing IL-22BP are monocytes, activated B cells and epithelial cells (1), and is constitutively expressed by a subset of conventional dendritic cells (2). IL-22BP is regulated by the inflammasome and it has been suggested to modulate tumorigenesis in the intestine (3).

References:

- Xu, W. et al. (2001) Proc. Natl. Acad. Sci. USA 98:9511.
- Martin, J. et al. (2014) Mucosal Immunol. 7:101.
- Huber, S. et al. (2012) Nature 491:259.

PRODUCT SPECIFIC NOTICES

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