

Monoclonal Mouse IgG_{2B} Clone # 875504 Catalog Number: IC10871A

		Human			
ficity D	Detects human IL-22BP in direct ELISAs. In direct ELISAs, no cross-reactivity with mouse IL-22BP is observed.				
e N	Monoclonal Mouse IgG _{2B} Clone # 875504				
cation F	Protein A or G purified from hybridoma culture supernatant				
Т	Mouse myeloma cell line NS0-derived recombinant human IL-22BP Thr22-Pro263 Accession # Q969J5				
E	citation Wavelength: 620-650 nm				
E	Allophycocyanin Excitation Wavelength: 620-650 nm Emission Wavelength: 660-670 nm 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		
Intracellular Staining by Flow Cytometry	10 µL/10 ⁶ cells	See Below		

DATA

Intracellular Staining by Flow Cytometry

	Detection of IL-22BP in Human PBMCs by Flow Cytometry. Human peripheral blood monoruclear cells (PBMCs) (A) untreated or (B) treated overnight with 250 ng/mL LPS were stained with Mouse Anti-Human IL-22BP APC-conjugated Monoclonal Antibody (Catalog # IC10871A) and Mouse Anti-Human CD14 PE-conjugated Monoclonal Antibody (Catalog # FAB3832P). Quadrant markers were set based on control antibody staining (Catalog # IC0041A). To for littlet interpetition entities, and the set ford with Eleme Characterian.
	facilitate intracellular staining, cells were fixed with Flow Cytometry Fixation Buffer (Catalog # FC004) and permeabilized with Flow Cytometry Permeabilization/Wash Buffer I (Catalog # FC005). View our protocol for Staining Intracellular Molecules.
10° 10° 10° 10° 20° 20° CD14	

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 of 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). IL-22BP 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:

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

Rev. 2/6/2018 Page 1 of 1



Global bio-techne.com info@bio-techne.com techsupport@bio-techne.com TEL +1 612 379 2956 USA TEL 800 343 7475 **Canada** TEL 855 668 8722 **China** TEL +86 (21) 52380373 **Europe | Middle East | Africa** TEL +44 (0)1235 529449