

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse IL-22BP in direct ELISAs and Western blots. In Western blots, approximately 10% cross-reactivity with recombinant human (rh) IL-22BP is observed and approximately 5% cross-reactivity with rhIL-22 R is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse IL-22BP Thr19-Pro230 (Asp149Glu) Accession # Q80XF5
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *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.

Western Blot Optimal dilution of this antibody should be experimentally determined.

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 CRF2-10, CRF2-X, and IL-22 RA2, is a 35-45 kDa secreted glycoprotein belonging to the type II cytokine receptor family (CRF). IL-22 signals through a receptor complex consisting of IL-22 R and IL-10 R β . IL-10 R β is also a component of the receptor complexes for IL-10, IL-26, IL-28, and IL-29 (1-4). IL-10 R β is widely expressed, and other cell types express either IL-10 R α or IL-22 R but not both (5). The mouse IL-22BP cDNA encodes a 230 amino acid (aa) precursor that includes a 20 aa signal sequence and two fibronectin type-III domains (6). Mouse IL-22BP shares 59% and 85% aa sequence identity with human and rat IL-22BP, respectively. Among type II cytokine receptors, IL-22BP is most closely related to the extracellular domain of IL-22 R, sharing 36% aa sequence identity. Splice variants of human IL-22BP exist but have not been detected for the mouse protein (6-8). IL-22BP binds an epitope on IL-22 that is required for the interaction of IL-22 with the transmembrane IL-22 R (8-10), thereby preventing the association of IL-22 R with IL-10 R β (10). IL-22BP blocks IL-22-induced responses including induction of MHC class I expression, Stat1 and Stat3 activation, SOCS3 gene expression, the production of reactive oxygen species (6, 9) and the modulation of the proinflammatory effects of IL-22 (11). Mouse IL-22 BP neutralizes both mouse and human IL-22 (6). IL-22BP is secreted by epithelial cells, dendritic cells, activated B cells, and activated monocytes (6, 8, 12, 13).

PRODUCT SPECIFIC NOTICES

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