

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human IL-20 R β in direct ELISAs and Western blots. In direct ELISAs, approximately 60% cross-reactivity with recombinant mouse IL-20 R β is observed and less than 2% cross-reactivity with recombinant human (rh) IL-20 R α , rhIL-10 R β , rhIFN
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant human IL-20 R β Asp30-Ala230 Accession # Q6UXL0
Conjugate	Alexa Fluor 750 Excitation Wavelength: 749 nm Emission Wavelength: 775 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

IL-20 receptor beta (IL-20 R β), also known as IL-20 R2, is a transmembrane glycoprotein in the class II cytokine receptor family. These receptors are characterized by tandem fibronectin type III domains in their extracellular region and the lack of a WSXWS motif (1). Class II cytokine receptors form heterodimeric signaling receptor complexes that mediate class II cytokine signals. Subunits of the different receptor complexes are shared and serve multiple functions (1). Human IL-20 R β consists of a 204 aa extracellular domain (ECD) with two fibronectin type III domains, a 21 aa transmembrane segment, and a 57 aa cytoplasmic domain (2). Within the ECD, human IL-20 R β shares 81% aa sequence identity with mouse IL-20 R β . It shares 15%-28% aa sequence identity with the human class II cytokine receptors IFN- α R1, IFN- α R2, IFN- γ R1, IFN- γ R2, IL-10 R α , IL-10 R β , IL-20 R α , IL-22BP, IL-22 R α , IL-28 R, and tissue factor. Strong IL-20 R β expression is normally restricted to skin and testis (3). IL-20 R β is also expressed in psoriatic skin, rheumatoid arthritis synovial membranes, and hepatocytes of LPS-treated mice, and it contributes to the local inflammatory reaction (3-6). IL-20 R β heterodimerizes with IL-20 R α to form the receptor complex that mediates IL-19, IL-20 and IL-24 signals (3, 7-10). It also heterodimerizes with IL-22 R to form the functional receptor complex for IL-20 and IL-24 (7-9). Binding of these IL-10 family class II cytokines to their receptors induces activation of the JAK-STAT signal transduction pathway.

PRODUCT SPECIFIC NOTICES

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