

Recombinant Rat IL17RA Protein (His Tag)

Catalog No. PKSR030331

Note: Centrifuge before opening to ensure complete recovery of vial contents.

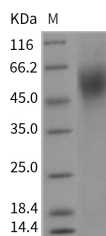
Description

Synonyms	IL17RA
Species	Rat
Expression Host	HEK293 Cells
Sequence	Met1-Pro320
Accession	NP_001101353.2
Calculated Molecular Weight	34.1 kDa
Observed molecular weight	52-58 kDa
Tag	C-His
Bioactivity	1. Immobilized rat IL17RA-His at 10 µg/ml (100 µl/well) can bind biotinylated human IL17A, The EC50 of biotinylated human IL17A is 5-11.8 ng/ml. 2. Immobilized mouse IL17a at 10 µg/ml (100 µl/well) can bind rat IL17RA-His, The EC50 of rat IL17RA-His is 0.44-1.02 µg/mL.

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from sterile PBS, pH 7.4 Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



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Background

Interleukin-17 receptor (IL-17R), also known as Interleukin-17 receptor A (IL-17RA) and CD217 antigen (CD217), is a cytokine receptor which binds interleukin 17. IL-17R/IL-17RA (CD217) is a proinflammatory cytokine secreted by activated T-lymphocytes. It is a potent inducer of the maturation of CD34-positive hematopoietic precursors into neutrophils. IL-17R/IL-17RA (CD217) is a ubiquitous type I membrane glycoprotein that binds with low affinity to interleukin 17A. Interleukin 17A and its receptor IL-17RA play a pathogenic role in many inflammatory and autoimmune diseases such as rheumatoid arthritis. Like other cytokine receptors, this receptor likely has a multimeric structure. Defects in IL-17R/IL-17RA (CD217) are the cause of familial candidiasis type 5 (CANDF5). CANDF5 is a rare disorder with altered immune responses and impaired clearance of fungal infections, selective against *Candida*. It is characterized by persistent and/or recurrent infections of the skin, nails and mucous membranes caused by organisms of the genus *Candida*, mainly *Candida albicans*.

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