

Human IL17 Receptor alpha protein, His tag

Cat. No. GTX00132-pro

Applications Functional Assay**Species** Human**Package**

10 µg

Applications

Application Note

Interleukin-17 receptor A (IL17RA) is a cytokine receptor which binds interleukin 17A (IL17A). IL17A is a proinflammatory cytokine secreted by activated T-lymphocytes. IL17RA, as a transmembrane protein, is a ubiquitous type I membrane glycoprotein that binds IL17A, IL17F and IL17C. Activation of IL17RA leads to induction of expression of inflammatory chemokines and cytokines such as CXCL1, CXCL8/IL8 and IL6. Thus a binding ELISA assay was constructed to detect the association of recombinant human IL17RA with recombinant human IL17A. Briefly, IL17RA were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100 µl were then transferred to IL17A-coated microtiter wells and incubated for 2h at 37°C. Wells were washed with PBST and incubated for 1h with anti-IL17RA pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody, wells were aspirated and washed 3 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37°C. Finally, add 50 µl stop solution to the wells and read at 450nm immediately. The binding activity of IL17RA with IL17A was in a dose dependent manner.

Observed MW (kDa) 18 kDa.

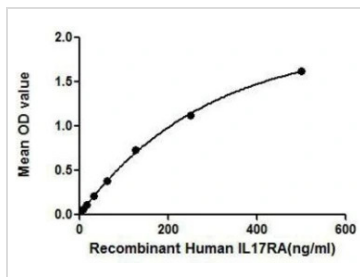
Properties

Form Lyophilized powder**Buffer** Reconstitute with 20mM Tris and 150mM NaCl to 0.1-1.0mg/ml. Do not vortex. Lyophilized from 20mM Tris, 150mM NaCl, 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose.**Preservative** ProClin 300**Storage** For short-term storage (1-2 weeks), store at 4°C. For long-term storage, store at -20°C or below. After reconstitution, keep as concentrated solution. Avoid freeze-thaw cycles.**Region/Sequence** N-terminal His-Tag; Pro377~Phe534 (NP_001276834.1)**Expression System** E. coli**Purity** > 90%**Endotoxin** < 1 EU/µg**Conjugation** Unconjugated**Note** For laboratory use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption.

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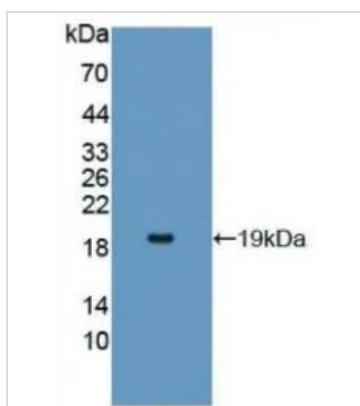
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DATA IMAGES



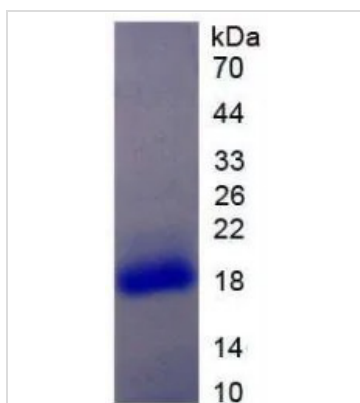
GTx00132-pro Functional Assay Image

Functional ELISA analysis of GTx00132-pro Human IL17 Receptor alpha protein which can bind immobilized IL17 protein.



GTx00132-pro Image

WB analysis of GTx00132-pro Human IL17 Receptor alpha protein.



GTx00132-pro Image

SDS-PAGE analysis of GTx00132-pro Human IL17 Receptor alpha protein.



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