

For Research Use Only

NeutraKine® IL-17A Monoclonal antibody, PBS Only (Detector)

Catalog Number: 69021-1-PBS



Basic Information

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|---|--|---|
| Catalog Number: 69021-1-PBS | GenBank Accession Number: GeneID (NCBI): 3605 | Purification Method: Protein A purification |
| Size: 100ug, Concentration: 1mg/ml by Nanodrop; | ENSEMBL Gene ID: ENSG00000112115 | CloneNo.: 1F3E3 |
| Source: Mouse | Full Name: interleukin 17A | |
| Isotype: IgG1 | | |
| Immunogen Catalog Number: HZ-1113 | | |

Applications

Tested Applications:
Neutralization, ELISA, Sandwich ELISA, Indirect ELISA

Species Specificity:
human

Product Information

69021-1-PBS targets NeutraKine® IL-17A as part of a matched antibody pair:

MP50004-1: 69021-2-PBS capture and 69021-1-PBS detection (validated in Sandwich ELISA)

Unconjugated mouse monoclonal antibody pair in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation.

This conjugation ready format makes antibodies ideal for use in many applications including: ELISAs, multiplex assays requiring matched pairs, mass cytometry, and multiplex imaging applications. Antibody use should be optimized by the end user for each application and assay.

Background Information

IL17A, also named as IL-17, is a proinflammatory cytokine. IL-17, synthesized only by memory T cells and natural killer cells, has pleiotropic effects, mainly in the recruitment and activation of neutrophils. This cytokine regulates the activities of NF-kappaB and mitogen-activated protein kinases. This cytokine can stimulate the expression of IL6 and cyclooxygenase-2 (PTGS2/COX-2), as well as enhance the production of nitric oxide (NO). High levels of this cytokine are associated with several chronic inflammatory diseases including rheumatoid arthritis, psoriasis and multiple sclerosis. The IL-17 receptor is a type I transmembrane protein, that is widely expressed on epithelial cells, fibroblasts, B and T cells, and monocytic cells. In psoriatic skin lesions, both Th17 cells and their downstream effector molecules, e.g. IL-17 and IL-22, are highly increased.

This antibody can be used to neutralize the bioactivity of IL-17A.

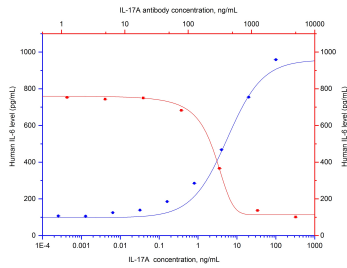
Storage

Storage:
Store at -80°C.
Storage Buffer:
PBS Only

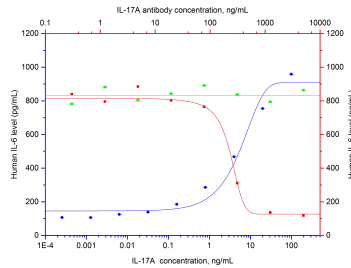
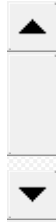
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

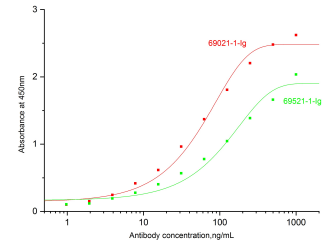
Selected Validation Data



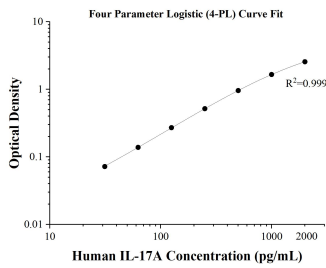
Recombinant human IL-17A (Cat.NO. HZ-1113) stimulates HT-1080 cells (human fibroblast cell line) produce IL-6 in a dose dependent manner (blue curve, refer to bottom X-Left Y axis). The activity of human IL-17A (40ng/mL HZ-1113) is neutralized by mouse anti-human IL-17A monoclonal antibody 69021-1-Ig (red curve, refer to top X-right Y axis). The ND50 is typically 200-600ng/mL. This data was developed using the same antibody clone with 69021-1-PBS



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Indirect ELISA was carried out by coating recombinant Human IL-17A (Cat.NO. HZ-1113) at 70 ng/well followed by blocking and adding serial diluted IL-17A antibody 69021-1-Ig and 69521-1-Ig respectively. Signal was developed with TMB and stopped by H2SO4. Signal strength was measured by absorbance at 450 nm. This data was developed using the same antibody clone with 69021-1-PBS in a different storage buffer formulation.



Sandwich ELISA standard curve of MP50004-1, IL17A Monoclonal Matched Antibody Pair, PBS Only. Capture antibody: 69021-2-PBS. Detection antibody: 69021-1-PBS. Standard: HZ-1113. Range: 31.25-2000 pg/mL