

For Research Use Only

NeutraKine®IL-27 Mouse McAb

Catalog Number:69034-1-Ig



Basic Information

Catalog Number: 69034-1-Ig	GenBank Accession Number: GeneID (NCBI): 246778	Purification Method: Protein G purification
Concentration:	UNIPROT ID: Q8NEV9	CloneNo.: 2H2A2
Source: Mouse	Full Name: interleukin 27	
Isotype: IgG1		
Immunogen Catalog Number: HZ-1275		

Applications

Tested Applications: Neutralization, ELISA	Positive Controls: Neutralization : OCI-AML5 cells, ELISA : Recombinant protein,
Species Specificity: human	

Background Information

IL-27 is a heterodimeric cytokine composed of two subunits: IL-27a and IL-27b. IL-27 acts on various cell types, including T cells, B cells, macrophages, dendritic cells, natural killer (NK) cells and non-hematopoietic cells. IL-27 plays a critical role in the early regulation of T helper type 1 initiation, and enhances proliferation of naive CD4+T cells and naive B cells. It, however, also exerts anti-inflammatory functions by inhibiting the development of Th17 cells and inducing IL-10 producing type 1 regulatory T cells. IL-27 is a potentially promising cytokine for therapeutic approaches on various human diseases.

This antibody is used to neutralize the bioactivity of IL-27.

Storage

Storage:
Lyophilized antibodies are stable for 1 year from the date of receipt if stored between (-20°C) and (-80°C). Upon reconstitution we recommend that the solution can be stored at(4°C) for short term or at(-20°C) to (-80°C) for long term. Repeated freeze thaw cycles should be avoided with reconstituted products.

Storage Buffer:
Sterile PBS, pH7.4

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

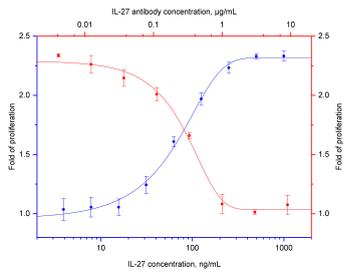
T: 4006900926

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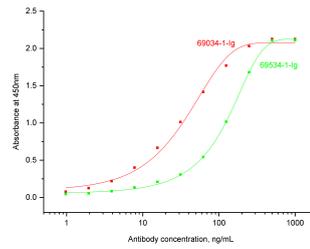
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Selected Validation Data



Recombinant human IL-27 (Cat.NO. HZ-1275) stimulates proliferation of OCI-AML5 cells in a dose dependent manner (blue curve, refer to bottom X-left Y axis). The activity of human IL-27 (250ng/mL HZ-1275) is neutralized by mouse anti-human IL-27 monoclonal antibody 69034-1-Ig at serial dose (red curve, refer to top X-right Y axis). The ND50 is typically 0.4-1 µg/mL.



Indirect ELISA was carried out by coating recombinant Human IL-27 (Cat.NO. HZ-1275) at 70 ng/well followed by blocking and adding serial diluted IL-27 antibody 69034-1-Ig and 69534-1-Ig respectively. Signal was developed with TMB and stopped by H2SO4. Signal strength was measured by absorbance at 450 nm.