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Anti-IL-6Ra / CD126 Reference Antibody (vobarilizumab)

Recombinant Antibody
Catalog # APR10258

Specification

Anti-IL-6Ra / CD126 Reference Antibody (vobarilizumab) - Product Information

Application	**FC, E, FTA**
Primary Accession	P08887
Reactivity	**Cynomolgus, Human**
Clonality	**Monoclonal**
Isotype	**IgG1**
Calculated MW	**145 KDa**

Anti-IL-6Ra / CD126 Reference Antibody (vobarilizumab) - Additional Information

Target/Specificity
IL-6Ra / CD126

Endotoxin
< 0.001EU/ μg,determined by LAL method.

Conjugation
Unconjugated

Expression system
CHO Cell

Format
Purified monoclonal antibody supplied in PBS, pH6.0, without preservative.This antibody is purified through a protein A column.

Anti-IL-6Ra / CD126 Reference Antibody (vobarilizumab) - Protein Information

Name IL6R (HGNC:6019)

Function
Part of the receptor for interleukin 6. Binds to IL6 with low affinity, but does not transduce a signal (PubMed:28265003). Signal activation necessitate an association with IL6ST. Activation leads to the regulation of the immune response, acute-phase reactions and hematopoiesis (PubMed:30995492, PubMed:31235509). The interaction with membrane-bound IL6R and IL6ST stimulates 'classic signaling', the restricted expression of the IL6R limits classic IL6 signaling to only a few tissues such as the liver and some cells of the immune system. Whereas the binding of IL6 and soluble IL6R to IL6ST stimulates 'trans- signaling'. Alternatively, 'cluster signaling' occurs when membrane- bound IL6:IL6R complexes on transmitter cells activate IL6ST receptors on neighboring receiver cells (Probable).

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Cellular Location
[Isoform 1]: Cell membrane {ECO:0000250|UniProtKB:P22272}; Single-pass type I membrane protein [Soluble interleukin-6 receptor subunit alpha]: Secreted

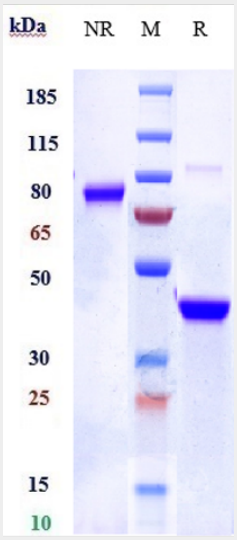
Tissue Location
[Isoform 2]: Expressed in peripheral blood mononuclear cells and weakly found in urine and serum. 1%-20% of the total sIL6R in plasma is generated by alternative splicing (PubMed:28060820).

Anti-IL-6Ra / CD126 Reference Antibody (vobarilizumab) - Protocols

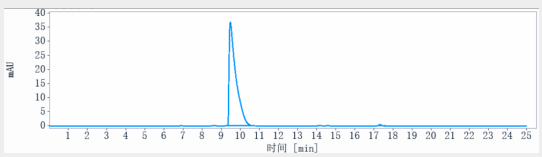
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-IL-6Ra / CD126 Reference Antibody (vobarilizumab) - Images



Anti-IL-6Ra / CD126 Reference Antibody (vobarilizumab) on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 96.9%



The purity of Anti-IL-6Ra / CD126 Reference Antibody (vobarilizumab)is more than 99.34% ,determined by SEC-HPLC.

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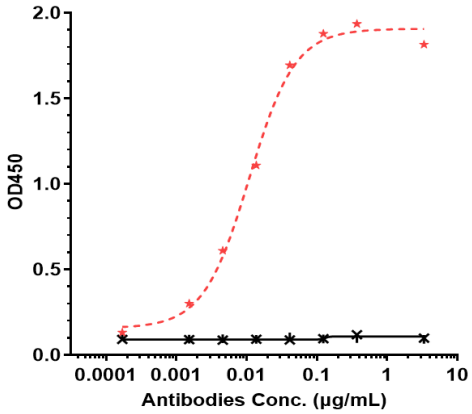
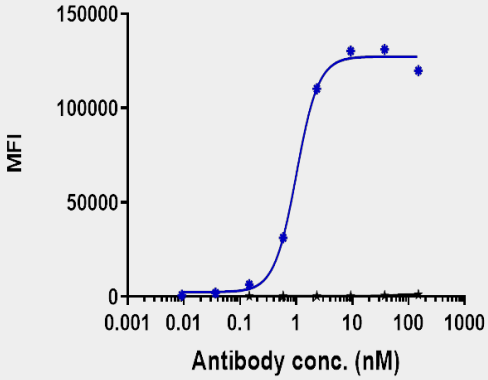


Immobilized human IL 6R His at 2 μg/mL can bind Anti-IL-6Ra / CD126 Reference Antibody (vobarilizumab)EC50=0.0158 μg/mL



Human IL6R CHO cells were stained with Anti-IL-6Ra / CD126 Reference Antibody (vobarilizumab) and negative control protein respectively, washed and then followed by PE and analyzed with FACS, EC320=1.0090 nM