

IL-1 β (PN0298) Nb-FC recombinant antibody

CatalogNo: YA0256 **Recombinant** 

Key Features

Reactivity

- Human

Isotype

- IgG2a, Kappa

Applications

- ELISA

Storage

Storage* -15°C to -25°C/1 year (Avoid freeze / thaw cycles)

Formulation Phosphate-buffered solution

Recommended Dilution Ratios

ELISA 1:5000-100000

Basic Information

Source Camel, chimeric fusion of Nanobody (VHH) and mouse IgG1 Fc domain , recombinantly produced from 293F cell

Purification Camel, chimeric fusion of Nanobody (VHH) and mouse IgG1 Fc domain , recombinantly produced from 293F cell

Clone Number PN0298

Immunogen Information

Immunogen Purified recombinant Human IL-1B

Specificity This recombinant monoclonal antibody can detects endogenous levels of IL-1B protein.

| Target Information

Gene name IL1B IL1F2

Protein Name Interleukin-1 beta (IL-1 beta) (Catabolin)

Organism	Gene ID	UniProt ID
Human	3553 ;	P01584 ;

Cellular Localization

Cytoplasm , cytosol . Secreted . Lysosome . Secreted , extracellular exosome . The precursor is cytosolic (PubMed:15192144) . In response to inflammasome-activating signals , such as ATP for NLRP3 inflammasome or bacterial flagellin for NLRC4 inflammasome , cleaved and secreted (PubMed:24201029 , PubMed:33377178 , PubMed:33883744) . Mature form is secreted and released in the extracellular milieu by passing through the gasdermin-D (GSDMD) pore (PubMed:33883744) . In contrast , the precursor form is not released , due to the presence of an acidic region that is proteolytically removed by CASP1 during maturation (PubMed:33883744) . The secretion is dependent on protein unfolding and facilitated by the cargo receptor TMED10 (PubMed:32272059) . .

Tissue specificity Expressed in activated monocytes/macrophages (at protein level) .

Function

Interleukin (IL) -1 β is a cytokine with a key role in the pathophysiology of local and systemic inflammation. IL-1 β induces cytokine , chemokine , proinflammatory molecule secretion , and adhesion molecule expression in diverse cells.

| Validation Data

| Contact information

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Please scan the QR code to access additional product information:
IL-1 β (PN0298) Nb-FC recombinant antibody

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