

## IL-1B (PN0164) Nb-FC recombinant antibody

CatalogNo: YA0609 **Recombinant** 

### Key Features

#### Reactivity

- Human

#### Applications

- ELISA

### Recommended Dilution Ratios

ELISA 1:5000-100000

### Storage

**Storage\*** -15°C to -25°C/1 year(Avoid freeze / thaw cycles)**Formulation** Phosphate-buffered solution

### 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** PN0164

### 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	<a href="#">3553</a> ;	<a href="#">P01584</a> ;

**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 $\beta$  is a cytokine with a key role in the pathophysiology of local and systemic inflammation. IL-1 $\beta$  induces cytokine, chemokine, proinflammatory molecule secretion, and adhesion molecule expression in diverse cells.

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## | Validation Data

## | Contact information

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**IL-1B (PN0164) Nb-FC recombinant antibody**

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