

## IL-1B (PN0166) Nb-FC recombinant antibody

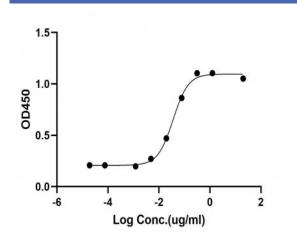
Catalog No :	YA0611
Reactivity :	Human
Applications :	ELISA
Target :	IL-1B
Gene Name :	IL1B IL1F2
Protein Name :	Interleukin-1 beta (IL-1 beta) (Catabolin)
Human Gene Id :	3553
Human Swiss Prot	P01584
No : Immunogen :	Purified recombinant Human IL-1B
Specificity :	This recombinant monoclonal antibody can detects endogenous levels of IL-1B protein.
Formulation :	Phosphate-buffered solution
Source :	Camel, chimeric fusion of Nanobody (VHH) and mouse IgG1 Fc domain , recombinantly produced from 293F cell
Dilution :	ELISA 1:5000-100000
Purification :	Recombinant Expression and Affinity purified
Concentration :	Please check the information on the tube
Storage Stability :	-15°C to -25°C/1 year(Avoid freeze / thaw cycles)
Background :	IL-1 $\beta$ in humans and mice does not encode a typical signal peptide and, as a result, newly synthesized pro-IL-1 $\beta$ accumulates within the cytoplasm of activated monocytes and macrophages. Conversion of the inactive pro-IL-1 $\beta$ to its mature form requires the proteolytic action of IL-1 $\beta$ -converting enzyme (ICE), also termed



	caspase-1 . Secretion of mature IL-1β from LPS-activated
	monocytes/macrophages is not a constitutive process. These cells must
	encounter a secondary stimulus that specifically activates the posttranslational
	processing events . Moreover, owing to its pro-inflammatory nature, IL-1 $\beta$ is
	regarded as a tumor-promoting cytokine. In fact, enhanced tumor metastasis and
	angiogenesis has been observed under the influence of IL-1 $\beta$ . IL-1 $\beta$ is able to
	facilitate tumor progression in murine models of lung cancer. In addition,
	upregulation of metastasis and tumor angiogenesis by IL-1 $\beta$ has been associated
	with increased activity of matrix metalloproteinases and expression of the pro-
	angiogenic molecule hepatocyte growth factor .
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Function :	Interleukin (IL)-1 $\beta$ is a cytokine with a key role in the pathophysiology of local
	and systemic inflammation. IL-1β induces cytokine, chemokine, proinflammatory molecule secretion, and adhesion molecule expression in diverse cells.
Subcellular	Cytoplasm, cytosol . Secreted . Lysosome . Secreted, extracellular exosome .
Location :	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)
Expression :	Expressed in activated monocytes/macrophages (at protein level)

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