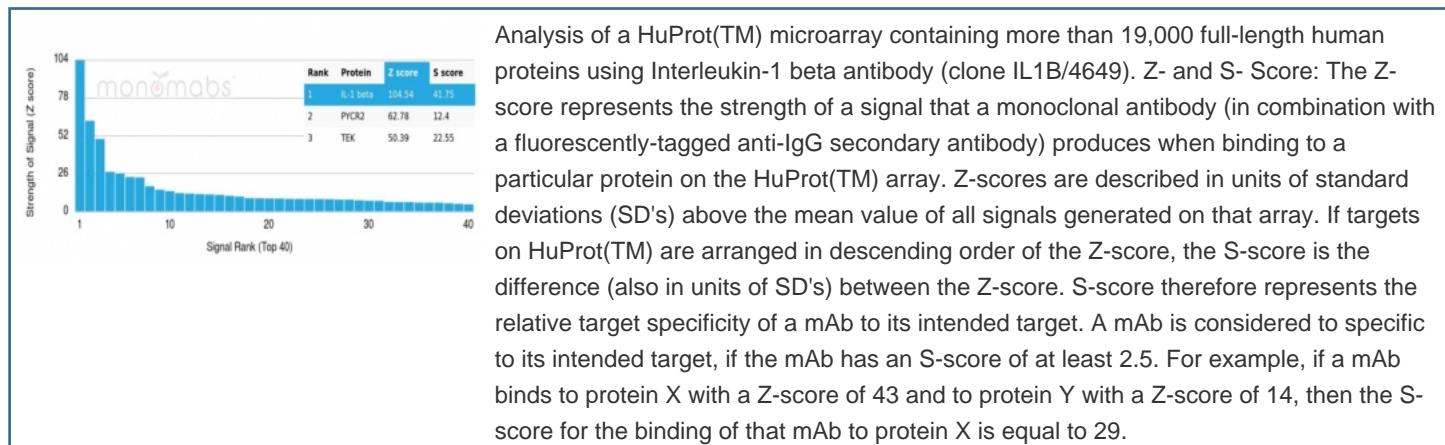


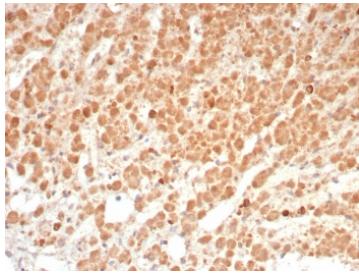
## IL-1 beta Antibody / IL1B [clone IL1B/4649] (V4915)

Catalog No.	Formulation	Size
V4915-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V4915-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V4915SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

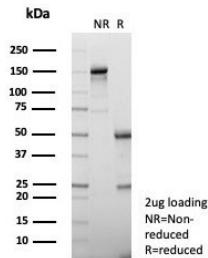
**Bulk quote request**

<b>Availability</b>	1-3 business days
<b>Species Reactivity</b>	Human
<b>Format</b>	Purified
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal (mouse origin)
<b>Isotype</b>	Mouse IgG2, kappa
<b>Clone Name</b>	IL1B/4649
<b>Purity</b>	Protein A/G affinity
<b>UniProt</b>	P01584
<b>Localization</b>	Cytoplasm, Extracellular (secreted)
<b>Applications</b>	ELISA (Order BSA-free Format For Coating) : Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT
<b>Limitations</b>	This IL1B antibody is available for research use only.





IHC staining of FFPE human adrenal gland tissue with Interleukin-1 Beta (IL-1B) antibody (clone IL1B/4649). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



SDS-PAGE analysis of purified, BSA-free Interleukin-1 Beta (IL-1B) antibody (clone IL1B/4649) as confirmation of integrity and purity.

## Description

Recognizes a protein of 17-31kDa, identified as interleukin 1beta. It shows no cross-reaction with interleukin 1alpha. Epitopes of mAb IL1B/463 and IL1B/4649 are different and provide a good pair for developing an ELISA. This cytokine is produced by activated macrophages as a proprotein, which is proteolytically processed to its active form by caspase 1 (CASP1/ICE). This cytokine is an important mediator of the inflammatory response, and is involved in a variety of cellular activities, including cell proliferation, differentiation, and apoptosis. The induction of cyclooxygenase-2 (PTGS2/COX2) by this cytokine in the central nervous system (CNS) is found to contribute to inflammatory pain hypersensitivity. This gene and eight other interleukin 1 family genes form a cytokine gene cluster on chromosome 2.

## Application Notes

Optimal dilution of the IL1B antibody should be determined by the researcher.

## Immunogen

A recombinant partial protein sequence (within amino acids 100-269) from the human protein was used as the immunogen for the IL1B antibody.

## Storage

Aliquot the IL1B antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.