Datasheet for ABIN1168983

Caspase 1 ELISA Kit

1 Publication

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Overview

Quantity:	96 tests
Target:	Caspase 1 (CASP1)
Reactivity:	Mouse
Method Type:	Sandwich ELISA
Detection Range:	0.15-10 ng/mL
Minimum Detection Limit:	0.15 ng/mL
Application:	ELISA

Product Details

Sample Type:	Cell Culture Supernatant, Plasma, Serum
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Specificity:	Detects mouse caspase-1 (proform as well as p10 and p20 domain).
Cross-Reactivity:	Mouse (Murine)
Cross-Reactivity (Details):	Does not detect human caspase-1.
Sensitivity:	33 pg/mL
Characteristics:	Standards are full lenght proteins.

Target Details

Target:	Caspase 1 (CASP1)

Target Details

Alternative Name:	Caspase-1 (CASP1 Products)
Background:	Caspase-1 is the best-described inflammatory caspase. It processes the cytokines interleukin-1beta (IL-1beta) and interleukin-18 (IL-18) and induces pyroptotic cell death. Caspase-1 is activated by multiprotein complexes called inflammasomes in response to numerous stimuli that are detected through distinct inflammasomes. NLRC4 responds to cytosolic flagellin, murine NLRP1b responds to anthrax lethal toxin, AIM2 responds to cytosolic DNA and NLRP3/NALP3 responds to a variety of agonists including crystals._x000D__x000D_This Caspase-1 (mouse) ELISA Kit can be used to measure caspase-1 (mouse) in cell culture supernatants. It is a quantitative detection method, alternative to Western blotting to measure caspase-1 secretion.
UniProt:	P29452
Pathways:	Apoptosis, Interferon-gamma Pathway, Positive Regulation of Endopeptidase Activity, Inflammasome

Application Details

Plate:	Pre-coated
Restrictions:	For Research Use only

Handling

Handling Advice:	Avoid freeze/thaw cycles. Plate and reagents should reach room temperature before use.
Storage:	4 °C
Storage Comment:	After standard reconstitution prepare aliquots and store at -20°C.
Expiry Date:	12 months

Publications

Product cited in:	Miyazaki, Mihara, Inata, Sasaki, Tominaga, Yakura, Ishida, Fukushima, Inoue: "Pharmacologic inhibition of IκB kinase activates immediate hypersensitivity reactions in mice." in: **The American journal of pathology**, Vol. 183, Issue 1, pp. 96-107, (2013) (PubMed).