

Datasheet: AHP281G

Description:	RABBIT ANTI HUMAN INTERLEUKIN-1 ALPHA
Specificity:	IL-1 ALPHA
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	0.1 mg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			■	
Immunohistology - Frozen			■	
Immunohistology - Paraffin (1)	■			
ELISA	■			0.5ug/ml
Immunoprecipitation			■	
Western Blotting	■			0.1 - 0.2ug/ml
Functional Assays	■			1.0 - 2.0ug/ml

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

(1) This product requires enzyme mediated antigen retrieval prior to staining of paraffin sections. Proteinase K is recommended for this purpose.

Target Species	Human
Product Form	Purified IgG - lyophilised
Reconstitution	Reconstitute with 0.1 ml distilled water. For long term storage the addition of 0.09% sodium azide is recommended. NB: For functional studies do not add azide.
Antiserum Preparation	Antisera to human IL-1 alpha were raised by repeated immunisation of rabbits with highly purified antigen. Purified IgG prepared by affinity chromatography.
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	None present
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml

Immunogen	Recombinant human IL-1alpha. (PHP040).
External Database Links	UniProt: P01583 Related reagents Entrez Gene: 3552 IL1A Related reagents
Synonyms	IL1F1
Specificity	Rabbit anti Human Interleukin-1 alpha antibody recognizes human IL-1 alpha (Interleukin-1 alpha), an 18kDa multi-functional pro-inflammatory cytokine which belongs to the IL-1 family of proteins, and is produced by a variety of cells including activated macrophages, monocytes and keratinocytes. IL-1 alpha and IL-1 beta have been identified as two distinct IL-1 proteins which bind to the same type 1 Interleukin 1 receptor (IL1R1). Biological properties of IL-1 alpha include stimulation of thymocyte proliferation by induction of IL-2 release, B-cell proliferation and maturation, and fibroblast growth factor activity.
References	- Gubler, U. <i>et al.</i> (1986) Recombinant human interleukin 1 alpha: purification and biological characterization. J Immunol. 136 (7): 2492-7. - Kilian, P.L. <i>et al.</i> (1986) Interleukin 1 alpha and interleukin 1 beta bind to the same receptor on T cells. J Immunol. 136 (12): 4509-14. - Henry CM <i>et al.</i> (2016) Neutrophil-Derived Proteases Escalate Inflammation through Activation of IL-36 Family Cytokines. Cell Rep. 14 (4): 708-22.
Storage	Prior to reconstitution store at +4°C. After reconstitution store at -20°C. Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.
Shelf Life	12 months from date of reconstitution
Health And Safety Information	Material Safety Datasheet documentation #10162 available at: 10162: https://www.bio-rad-antibodies.com/uploads/MSDS/10162.pdf
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...)	FITC
Sheep Anti Rabbit IgG (STAR35...)	RPE
Goat Anti Rabbit IgG (H/L) (STAR124...)	HRP
Goat Anti Rabbit IgG (Fc) (STAR121...)	Biotin , FITC , HRP
Sheep Anti Rabbit IgG (2AB02...)	Biotin
Sheep Anti Rabbit IgG (STAR36...)	DyLight®488 , DyLight®549 , DyLight®649 , DyLight®680 , DyLight®800

Recommended Useful Reagents

[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025A\)](#)

[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025C\)](#)

[TidyBlot™ WESTERN BLOT DETECTION REAGENT:HRP \(STAR209P\)](#)

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