

IL-1RA Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP57980

Product Information

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	P25085
Reactivity	Rat, Pig, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	20274
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from mouse IL-1RA
Epitope Specificity	26-120/178
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Isoform 1: Secreted. Isoform 2, 3, 4: Cytoplasm.
DISEASE	Microvascular complications of diabetes 4 (MVCD4) [MIM:612628]: Pathological conditions that develop in numerous tissues and organs as a consequence of diabetes mellitus. They include diabetic retinopathy, diabetic nephropathy leading to end-stage renal disease, and diabetic neuropathy. Diabetic retinopathy remains the major cause of new-onset blindness among diabetic adults. It is characterized by vascular permeability and increased tissue ischemia and angiogenesis. Note=Disease susceptibility is associated with variations affecting the gene represented in this entry. Interleukin 1 receptor antagonist deficiency (DIRA) [MIM:612852]: A rare autoinflammatory disease of skin and bone resulting in sterile multifocal osteomyelitis, periostitis, and pustulosis from birth. The term autoinflammatory disease describes a group of disorders characterized by attacks of seemingly unprovoked inflammation without significant levels of autoantibodies and autoreactive T-cells. Note=The disease is caused by mutations affecting the gene represented in this entry.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	IL-1RA is a member of the interleukin 1 cytokine family. IL1Ra is secreted by various types of cells including immune cells, epithelial cells, and adipocytes, and is a natural inhibitor of the pro-inflammatory effect of IL1 β . This protein inhibits the activities of interleukin 1, alpha (IL1A) and interleukin 1, beta (IL1B), and modulates a variety of interleukin 1 related immune and inflammatory responses. This gene and five other closely related cytokine genes form a gene cluster spanning approximately 400 kb on chromosome 2. Four alternatively spliced transcript variants encoding distinct isoforms have been reported.

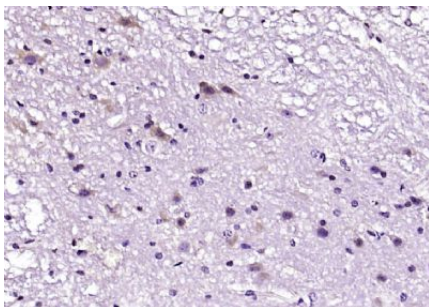
Additional Information

Gene ID	16181
Other Names	Interleukin-1 receptor antagonist protein, IL-1RN, IL-1ra, IRAP, IL1 inhibitor, Il1rn, Il-1ra
Target/Specificity	The intracellular form of IL1RN is predominantly expressed in epithelial cells.
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

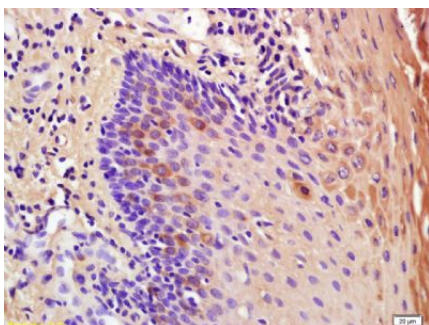
Protein Information

Name	Il1rn
Synonyms	Il-1ra
Function	Anti-inflammatory antagonist of interleukin-1 family of proinflammatory cytokines such as interleukin-1beta/IL1B and interleukin-1alpha/IL1A. Protects from immune dysregulation and uncontrolled systemic inflammation triggered by IL1 for a range of innate stimulatory agents such as pathogens.
Cellular Location	[Isoform 1]: Secreted {ECO:0000250 UniProtKB:P18510}

Images

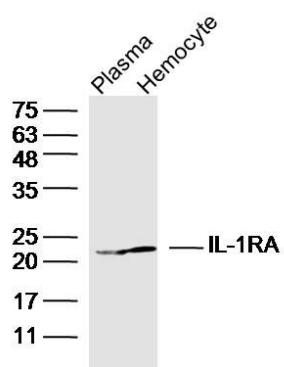


Paraformaldehyde-fixed, paraffin embedded (mouse spinal tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (IL-1RA) Polyclonal Antibody, Unconjugated (AP57980) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

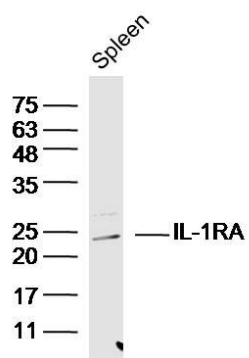


Tissue/cell: Human oral squamous cell carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;
Incubation: Anti-IL-1RA Polyclonal Antibody, Unconjugated(AP57980) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

Sample: Lane1:Plasma(Mouse) Tissue Lysate at 30 ug
Lane2:Hemocyte(Mouse) Tissue Lysate at 30 ug
Primary: Anti-IL-1RA (AP57980)at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at



1/20000 dilution
 Predicted band size: 18 kD
 Observed band size: 23 kD



Sample: Spleen(Mouse) Tissue Lysate at 30 ug
 Primary: Anti-IL-1RA (AP57980) at 1/300 dilution
 Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
 Predicted band size: 18 kD
 Observed band size: 23 kD

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.