

For Research Use Only

# IL-1RA Polyclonal antibody

Catalog Number: 10844-1-AP

4 Publications



## Basic Information

### Catalog Number:

10844-1-AP

### Size:

150ul, Concentration: 400 ug/ml by Nanodrop and 293 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG1277

### GenBank Accession Number:

BC009745

### GeneID (NCBI):

3557

### UNIPROT ID:

P18510

### Full Name:

interleukin 1 receptor antagonist

### Calculated MW:

20 kDa

### Observed MW:

18-20 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB: 1:500-1:1000

IHC: 1:200-1:500

IF/ICC: 1:200-1:800

FC (Intra): 0.40 ug per 10<sup>6</sup> cells in a 100 µl suspension

## Applications

### Tested Applications:

WB, IHC, IF/ICC, FC (Intra), ELISA

### Cited Applications:

WB, IHC, IF

### Species Specificity:

human, mouse

### Cited Species:

human, mouse

### Positive Controls:

WB: A431 cells, HeLa cells, MOLT-4 cells, RAW 264.7 cells

IHC: human oesophagus tissue, human colon tissue, human colon cancer tissue, human stomach tissue

IF/ICC: A431 cells,

FC (Intra): A431 cells,

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

## Background Information

Interleukin-1 receptor antagonist (IL-1RA) is a critical member of the IL-1 family of cytokines, which plays a significant role in modulating inflammatory responses. IL-1RA exists in two main forms: a secreted form (sIL-1Ra) and an intracellular form (icIL-1Ra). The secreted form is produced by various cells including monocytes, macrophages, neutrophils, and other cells, while the intracellular form is found in keratinocytes and other epithelial cells, as well as in monocytes and fibroblasts. IL-1RA is important in host defense against endotoxin-induced injury and is produced in numerous experimental animal models of disease, as well as in human autoimmune and chronic inflammatory diseases. It acts as an anti-inflammatory agent by maintaining the balance between pro-inflammatory IL-1α/β and its own anti-inflammatory effects.

## Notable Publications

Author	Pubmed ID	Journal	Application
J Zhang	28733866	Clin Transl Oncol	WB
Shen Ma	38634039	Breast Cancer (Dove Med Press)	IHC
Yanli Ma	37638046	Front Immunol	IF

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

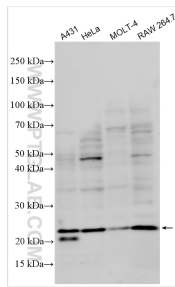
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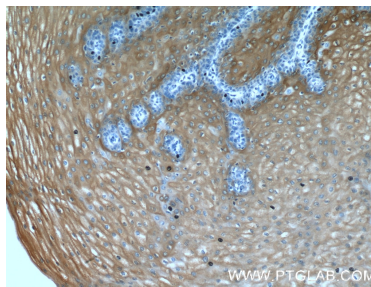
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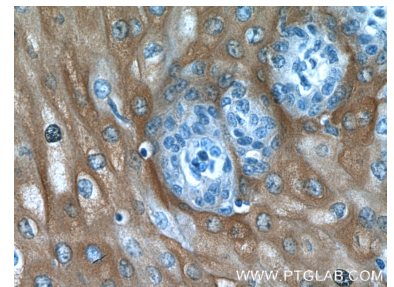
## Selected Validation Data



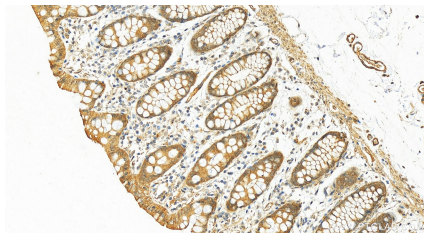
Various lysates were subjected to SDS PAGE followed by western blot with 10844-1-AP (IL-1RA antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



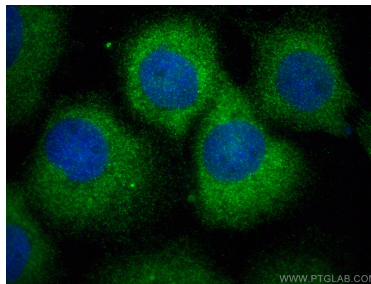
Immunohistochemical analysis of paraffin-embedded human oesophagus tissue slide using 10844-1-AP (IL1RA antibody at dilution of 1:200 (under 10x lens).



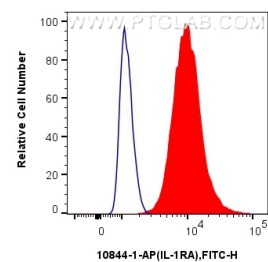
Immunohistochemical analysis of paraffin-embedded human oesophagus tissue slide using 10844-1-AP (IL1RA antibody at dilution of 1:200 (under 40x lens).



Immunohistochemical analysis of paraffin-embedded human normal colon slide using 10844-1-AP (IL-1RA antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Methanol) fixed A431 cells using IL-1RA antibody (10844-1-AP) at dilution of 1:400 and Multi-rAb CoraLite® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002).



1X10<sup>6</sup> A431 cells were intracellularly stained with 0.4 ug Anti-Human IL-1RA (10844-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Rabbit IgG control Rabbit PolyAb (30000-O-AP, Clone: ) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).