

For Research Use Only

IL-1RA Polyclonal antibody

Catalog Number: 10844-1-AP

4 Publications



Basic Information

Catalog Number:

10844-1-AP

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 10⁶ 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

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

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,

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-1 α / 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

For technical support and original validation data for this product please contact:

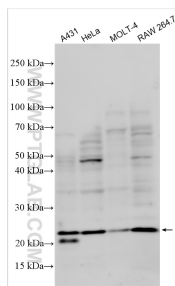
T: 4006900926

E: Proteintech-CN@ptglab.com

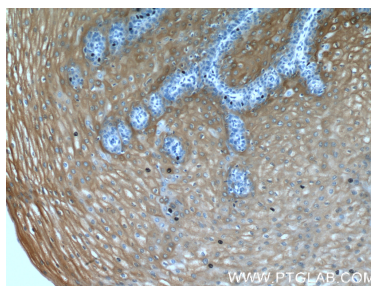
W: ptgcn.com

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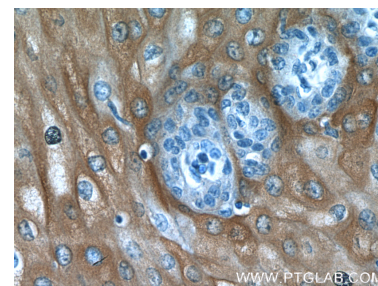
Selected Validation Data



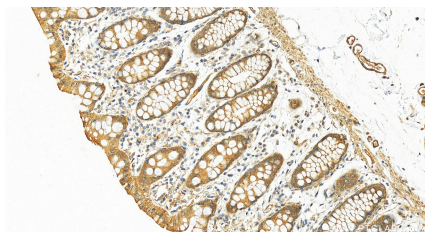
Various lysates were subjected to SDS PAGE followed by western blot with 10844-1-AP (IL-1RA antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



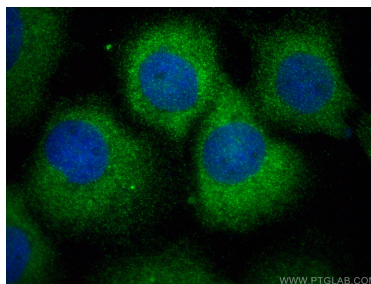
Immunohistochemical analysis of paraffin-embedded human oesophagus tissue slide using 10844-1-AP (IL1RA antibody at dilution of 1:200 (under 10x lens).



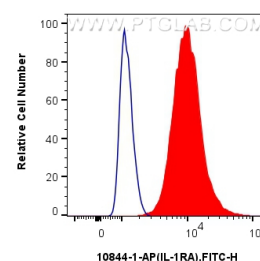
Immunohistochemical analysis of paraffin-embedded human oesophagus tissue slide using 10844-1-AP (IL1RA antibody at dilution of 1:200 (under 40x lens).



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).



1X10⁶ 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 isotype control (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer.