

For Research Use Only

IL-11RA Polyclonal antibody

Catalog Number: 10264-1-AP **2 Publications**



Basic Information

Catalog Number: 10264-1-AP	GenBank Accession Number: BC003110	Purification Method: Antigen affinity purification
Size: 500 µg/ml	GeneID (NCBI): 3590	Recommended Dilutions: WB 1:500-1:3000 IHC 1:50-1:500 IF 1:20-1:200
Source: Rabbit	UNIPROT ID: Q14626	
Isotype: IgG	Full Name: interleukin 11 receptor, alpha	
Immunogen Catalog Number: AG0373	Calculated MW: 45 kDa	
	Observed MW: 45 kDa	

Applications

Tested Applications: FC, IF, IHC, WB, ELISA	Positive Controls: WB : mouse colon tissue, IHC : human prostate cancer tissue, mouse colon tissue IF : N2a cells,
Cited Applications: IF, WB	
Species Specificity: human, mouse, rat	
Cited Species: mouse	
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-11 (IL-11), a member of the IL-6 family of cytokines, was firstly identified in bone marrow-derived stromal cells (PMID: 2145578). IL-11 is a multifunctional cytokine that plays important roles in hematopoiesis, bone development, tissue repair, and tumor development (PMID: 33863879). IL-10 signals through a receptor complex consisting of IL-11 receptor alpha subunit (IL-11RA) and gp130. IL-11RA binds IL-11 and gp130 transmits signals to the nucleus via Janus kinase (JAK) activation. In addition to a membrane-bound form, IL-11RA can also exist as a soluble form (sIL-11RA) that acts as an agonist of IL-11 activity (PMID: 26876177; 27493449).

Notable Publications

Author	Pubmed ID	Journal	Application
Masue M Marbiah	24843046	EMBO J	IF
Chenshuang Zhang	37490628	ACS Nano	WB

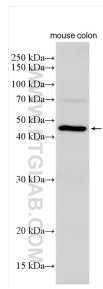
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
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

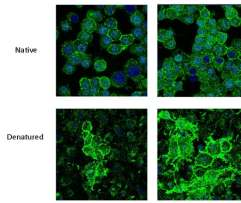
This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data

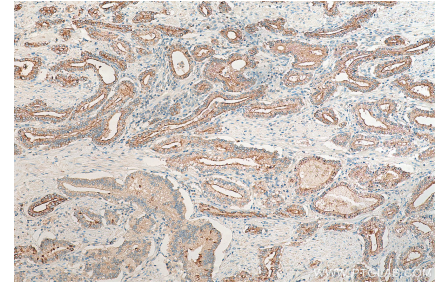


Mouse colon tissue was subjected to SDS PAGE followed by western blot with 10264-1-AP (IL-11RA antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.

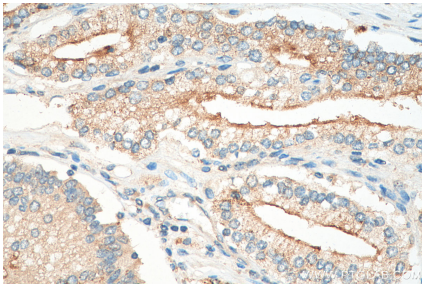
N2a neuroblastoma cells fixed under native (4% PFA- Triton X 100) or denaturing (4% PFA + Guanidine thiocyanate) conditions. Labeled with Anti-IL11ra (Protein tech #10264-1-AP)



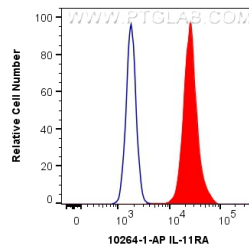
IF result of anti-IL11RA (10264-1-AP, 1:200) with N2a cells (4%PFA fixed) by Miss Masue Marbiah, PhD student MRC Prion Unit, Department of Neurodegenerative Diseases, UCL Institute of Neurology.



Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 10264-1-AP (IL-11RA antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 10264-1-AP (IL-11RA antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1X10⁶ K-562 cells were intracellularly stained with 0.4 ug Anti-Human IL-11RA (10264-1-AP) and CoraLite[®]488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Isotype Control. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).