

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: 150ul , Concentration: 500 µg/ml by Nanodrop;	GeneID (NCBI): 3590	Recommended Dilutions: WB 1:500-1:3000 IHC 1:50-1:500 IF 1:20-1:200
Source: Rabbit	Full Name: interleukin 11 receptor, alpha	
Isotype: IgG	Calculated MW: 45 kDa	
Immunogen Catalog Number: AG0373	Observed MW: 45 kDa	

Applications

Tested Applications: FC, IF, IHC, WB, ELISA	Positive Controls:
Cited Applications: IF, WB	WB : mouse colon tissue,
Species Specificity: human, mouse, rat	IHC : human prostate cancer tissue, mouse colon tissue
Cited Species: mouse	IF : N2a 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-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

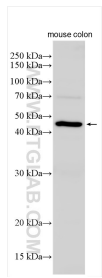
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

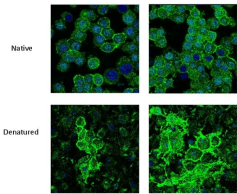
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Selected Validation Data

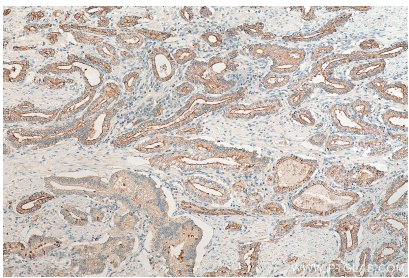


Mouse colon tissue was subjected to SDS PAGE followed by western blot with 10264-1-AP (IL-11RA antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.

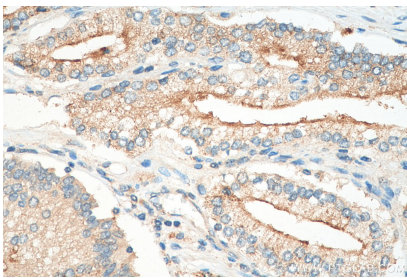
N2a neuroblastoma cells fixed under native (4% PFA- Triton X 100) or denaturing (4% PFA + Guanidine thiocyanate) conditions. Labeled with Anti-IL11ra (Protein tech-10264-1-AP)



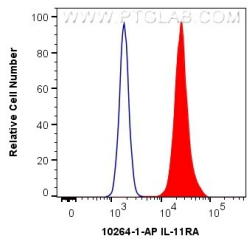
IF result of anti-IL11RA (10264-1-AP, 1:200) with N2a cells (4%PFA fixed) by Miss Masue Marbiah, PhD student MRC Prion Unit, Department of Neurodegenerative Diseases, UCL Institute of Neurology.



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).