For Research Use Only

Aggrecan Polyclonal antibody

Catalog Number:13880-1-AP 460 Publications

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Basic Information

Catalog Number:
13880-1-AP

Size:
150ul , Concentration: 720 ug/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG4985

GenBank Accession Number:
BC036445

GeneID (NCBI):
176

UNIPROT ID:
P16112

Full Name:
aggrecan

Calculated MW:
250 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
IHC: 1:200-1:800
FC (Intra): 0.80 ug per 10^6 cells in a 100 ul suspension

Applications

Tested Applications:
IHC, FC (Intra), ELISA

Cited Applications:
IHC, IF

Species Specificity:
human, mouse, rat

Cited Species:
human, mouse, rat, pig, rabbit, canine, zebrafish, goat

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:

IHC : human lung tissue, human cartilage tissue, human lung cancer tissue, mouse lung tissue, rat brain tissue

FC (Intra) : ATDC-5 cells,

Background Information

Aggrecan (ACAN), also named as CSPCP, AGC1 and MSK16, belongs to the aggrecan/versican proteoglycan family (also including versican, brevican and neurocan). It is a major component of extracellular matrix of cartilaginous tissues. A major function of aggrecan is to resist compression in cartilage. It binds avidly to hyaluronic acid via an N-terminal globular region.

Notable Publications

Author	Pubmed ID	Journal	Application
Yangfei Yi	36178080	Orthop Surg	IHC
Sa Cha	34638972	Int J Mol Sci	IHC
Lindsay N Collins	31571216	J Comp Neurol	

Storage

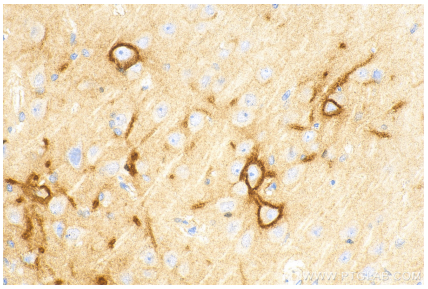
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

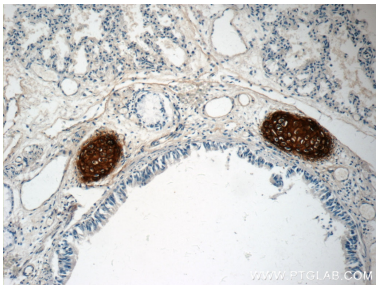
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

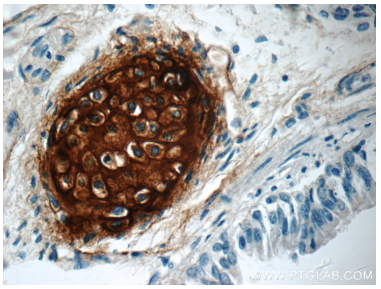
Selected Validation Data



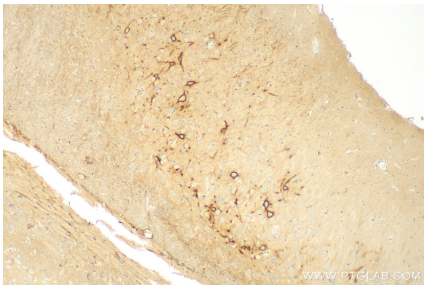
Immunohistochemical analysis of paraffin-embedded rat brain tissue slide using 13880-1-AP (Aggrecan antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



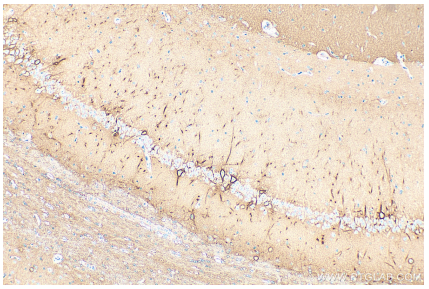
Immunohistochemical analysis of paraffin-embedded human lung tissue slide using 13880-1-AP (Aggrecan antibody at dilution of 1:400 (under 10x lens).



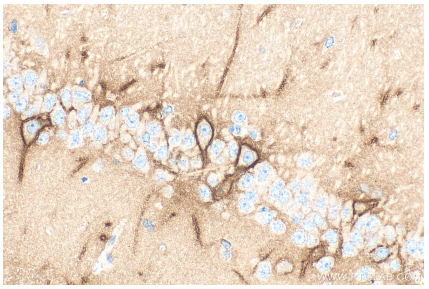
Immunohistochemical analysis of paraffin-embedded human lung tissue slide using 13880-1-AP (Aggrecan antibody at dilution of 1:400 (under 40x lens).



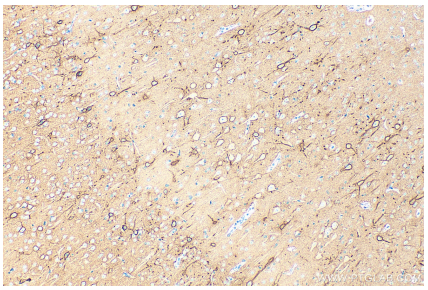
Immunohistochemical analysis of paraffin-embedded rat brain tissue slide using 13880-1-AP (Aggrecan antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



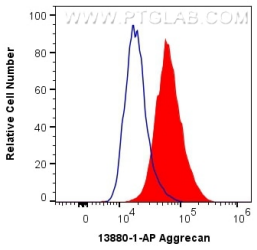
Immunohistochemical analysis of paraffin-embedded rat brain tissue slide using 13880-1-AP (Aggrecan antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded rat brain tissue slide using 13880-1-AP (Aggrecan antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded rat brain tissue slide using 13880-1-AP (Aggrecan antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1X10^6 ATDC-5 cells were intracellularly stained with 0.8 ug Anti-Human Aggrecan (13880-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.8 ug Isotype Control. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer.