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PRG4 Antibody (N-Term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP22357a

Product Information

Application	WB, IF, E
Primary Accession	Q92954
Reactivity	Human
Predicted	Human
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Clone Names	RB57887
Calculated MW	151061

Additional Information

Gene ID	10216
Other Names	Proteoglycan 4, Lubricin, Megakaryocyte-stimulating factor, Superficial zone proteoglycan, Proteoglycan 4 C-terminal part, PRG4, MSF, SZP
Target/Specificity	This PRG4 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 176-210 amino acids from the human region of human PRG4.
Dilution	WB~~1:500 IF~~1:25 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	PRG4 Antibody (N-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	PRG4
Synonyms	MSF, SZP
Function	Plays a role in boundary lubrication within articulating joints. Prevents protein deposition onto cartilage from synovial fluid by controlling

	adhesion-dependent synovial growth and inhibiting the adhesion of synovial cells to the cartilage surface.
Cellular Location	Secreted
Tissue Location	Highly expressed in synovial tissue, cartilage and liver and weakly in heart and lung. Isoform B is expressed in kidney, lung, liver, heart and brain. Isoform C and isoform D are widely expressed.

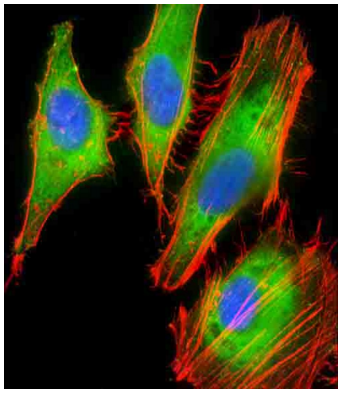
Background

Plays a role in boundary lubrication within articulating joints. Prevents protein deposition onto cartilage from synovial fluid by controlling adhesion-dependent synovial growth and inhibiting the adhesion of synovial cells to the cartilage surface.

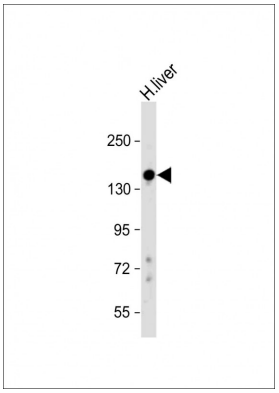
References

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Ota T.,et al.Nat. Genet. 36:40-45(2004).
Gregory S.G.,et al.Nature 441:315-321(2006).
Jones A.R.,et al.Submitted (JUN-2004) to the EMBL/GenBank/DDBJ databases.
Flannery C.R.,et al.Biochem. Biophys. Res. Commun. 254:535-541(1999).

Images



Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized Hela (human cervical epithelial adenocarcinoma cell line) cells labeling PRG4 with AP22357a at 1/25 dilution, followed by Dylight® 488-conjugated goat anti-rabbit IgG (1583138) secondary antibody at 1/200 dilution (green). Immunofluorescence image showing cytoplasm staining on Hela cell line. Cytoplasmic actin is detected with Dylight® 554 Phalloidin (PD18466410) at 1/100 dilution (red).The nuclear counter stain is DAPI (blue).



Anti-PRG4 Antibody (N-Term) at 1:500 dilution + Human liver whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 151 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.