

Aggrecan Neo Polyclonal Antibody

Product Details

Size	100 µg
Species Reactivity	Bovine, Dog, Human, Mouse, Pig, Rat
Published Species	Rat, Bovine, Mouse, Human
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Synthetic peptide corresponding to residues C G G N(387) I T E G E(392) of human aggrecan.
Form	Liquid
Concentration	0.83 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS with 1mg/mL BSA
Contains	0.05% sodium azide
Storage conditions	-20° C, Avoid Freeze/Thaw Cycles
RRID	AB_2242021

Applications	Tested Dilution	Publications
Western Blot (WB)	1 µg/mL	7 Publications
Immunohistochemistry (IHC)	Assay-dependent	7 Publications
Immunohistochemistry (Paraffin) (IHC (P))	-	3 Publications
Immunocytochemistry (ICC/IF)	-	3 Publications

Product Specific Information

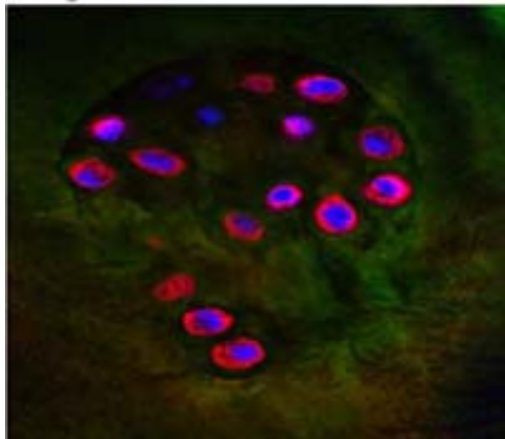
PA1-1746 detects human, rat, mouse, bovine, canine, and porcine aggrecan neo G1.

PA1-1746 has been successfully used in Western blot and immunofluorescence procedures. By Western blot, this antibody detects an ~64 kDa protein representing the neoepitope sequence (NITEGE) generated by aggrecanase-mediated cleavage at Glu373-Ala374 of aggrecan core proteins.

The PA1-1746 immunogen is a synthetic peptide corresponding to residues residues C G G N(387) I T E G E(392) of human aggrecan.

Fig. 1

Aggrecan Neo Antibody (PA1-1746) in IHC
Immunofluorescent analysis of Aggrecan Neo in OA cartilage using a polyclonal antibody (Product # PA1-1746).



[View more figures on thermofisher.com](https://www.thermofisher.com)

Western Blot (7)

Inflammopharmacology	Year 2023
Maltol ameliorates intervertebral disc degeneration through inhibiting PI3K/AKT/NF-B pathway and regulating NLRP3 inflammasome-mediated pyroptosis.	Species Rat
"PA1-1746 was used in Western Blotting to suggest that MA slowed IDD development through the PI3K/AKT/NF-B signaling pathway and NLRP3 inflammasome-mediated pyroptosis, indicating that MA appeared to be a viable medication for IDD treatment."	
Authors: Gong Y,Qiu J,Jiang T,Li Z,Zhang W,Zheng X,He Z,Chen W,Wang Z,Feng X,Wang M,Hong Z	
Frontiers in pharmacology	Year 2022
Selumetinib - a potential small molecule inhibitor for osteoarthritis treatment.	
"Published figure using Aggrecan Neo polyclonal antibody (Product # PA1-1746) in Western Blot"	
Authors: Zheng X,Qiu J,Pan W,Gong Y,Zhang W,Jiang T,Chen L,Chen W,Hong Z	

View more WB references on thermofisher.com

Immunohistochemistry (7)

RMD open	Year 2022
Suramin increases cartilage proteoglycan accumulation in vitro and protects against joint damage triggered by papain injection in mouse knees in vivo.	Dilution 1:100
"Published figure using Aggrecan Neo polyclonal antibody (Product # PA1-1746) in Immunohistochemistry"	
Authors: Guns LA,Monteagudo S,Kvasnytsia M,Kerckhofs G,Vandooren J,Opdenakker G,Lories RJ,Cailotto F	
Arthritis & rheumatology (Hoboken, N.J.)	Year 2022
Role of Ciliary Protein Intraflagellar Transport Protein 88 in the Regulation of Cartilage Thickness and Osteoarthritis Development in Mice.	Species Mouse
"PA1-1746 was used in Immunohistochemistry to demonstrate that IFT88 is chondroprotective, regulating AC thickness, potentially by thresholding a Hh response to physiological loading that controls cartilage calcification."	
Authors: Coveney CR,Zhu L,Miotla-Zarebska J,Stott B,Parisi I,Batchelor V,Duarte C,Chang E,McSorley E,Vincent TL,Wann AKT	
	Dilution 1:50

View more IHC references on thermofisher.com

More applications with references on thermofisher.com

- IHC (P) (3)
- ICC/IF (3)

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization. Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample. NO OTHER WARRANTIES, EXPRESS OR IMPLIED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPAIR, REPLACEMENT OF OR REFUND FOR THE NON-CONFORMING PRODUCT(S) AT SELLER'S SOLE OPTION. THERE IS NO OBLIGATION TO REPAIR, REPLACE OR REFUND FOR PRODUCTS AS THE RESULT OF (I) ACCIDENT, DISASTER OR EVENT OF FORCE MAJEURE, (II) MISUSE, FAULT OR NEGLIGENCE OF OR BY BUYER, (III) USE OF THE PRODUCTS IN A MANNER FOR WHICH THEY WERE NOT DESIGNED, OR (IV) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended for research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses, or any type of consumption by or application to human or animals.