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Product datasheet

Anti-Aggrecan ARGxx antibody [BC-3] ab3773

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Overview

Product name	Anti-Aggrecan ARGxx antibody [BC-3]
Description	Mouse monoclonal [BC-3] to Aggrecan ARGxx
Host species	Mouse
Specificity	Recognises the aggrecanase (ADAMTS-1, -4 & -5)-generated N-terminal neoepitope ARG after cleavage between amino acids EGE and ARG within the interglobular domain of aggrecanase-catabolised aggrecan (Human aggrecan sequence enumeration). This antibody will not recognise the sequence ...ARG.. if it is in the non-cleaved intact aggrecan protein core; i.e. it will only recognise the aggrecanase generated neoepitope ARG... Samples need to be deglycosylated for epitope recognition (see notes).
Tested applications	**Suitable for:** ICC/IF, ELISA, Sandwich ELISA, IHC-Fr, IHC-P, WB
Species reactivity	**Reacts with:** Rat, Sheep, Rabbit, Horse, Guinea pig, Cow, Cat, Dog, Human, Pig **Does not react with:** Mouse
Immunogen	Synthetic peptide corresponding to Aggrecan ARGxx. ▣ **Run BLAST with** ExPASy ▣ **Run BLAST with** NCBI
General notes	Samples must be deglycosylated using 0.01 Units Chondroitinase ABC (Sigma), 0.01 Units Keratanase (Seikagaku) and 0.0001 Units Keratanase II (Seikagaku) per 10µg S-GAG of non-deglycosylated aggrecan for optimal epitope recognition. See Little et al. and Caterson et al. Diluted Technomouse culture supernatant. Aggrecan degradation products containing this neoepitope are rapidly released from the tissue in model explant culture systems and are also present in the synovial fluids of patients with degenerative joint disease. The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.40 Preservative: 0.02% Sodium azide Constituent: 3.16% Tris HCl
Purity	Tissue culture supernatant
Primary antibody notes	Aggrecan degradation products containing this neoepitope are rapidly released from the tissue in model explant culture systems and are also present in the synovial fluids of patients with degenerative joint disease.
Clonality	Monoclonal
Clone number	BC-3
Myeloma	x63-Ag8.653
Isotype	IgG1
Light chain type	kappa

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab3773 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF		Use at an assay dependent concentration. PubMed: 24312401
ELISA	★★★★★ (1)	Use at an assay dependent concentration.
Sandwich ELISA		Use at an assay dependent concentration. PubMed: 19932675
IHC-Fr		Use at an assay dependent concentration. This antibody should work in IHC on alcohol-fixed frozen sections or un-fixed snap-frozen sections.
IHC-P		Use at an assay dependent concentration. This antibody should work in IHC on formalin- or paraformaldehyde-fixed paraffin embedded sections.
WB		Use at an assay dependent concentration. Detects a variety of epitopes between 50 and 250 kDa.

Target

Relevance Aggrecan has been detected in neural precursor cells (neurospheres; Kabos et al, 2004) During differentiation, neurospheres downregulate Chondroitin sulfate proteoglycans (CSPGs). Proliferating neural precursors synthesize lecticans, including aggrecan, which are downregulated with differentiation; suggesting a link between CSPGs and CNS precursor biology.

Cellular localization   Secreted

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