abcam

Product datasheet

Anti-D-glucosamine antibody ab62666

1 References

Overview

Product name	Anti-D-glucosamine antibody
Description	Rabbit polyclonal to D-glucosamine
Host species	Rabbit
Specificity	Fixed tissue cross-reactivity tested with known targets at recommended dilution. No measurable glutaraldehyde-fixed tissue cross-reactivity (<1:1000) against any free D or L amino acid. The IgG is highly specifc for glucosamine (L/D differences not determined yet). As most other pentoses are unfixable (lacking primary amino groups), this antibody cannot detect them in fixed tissues.
Tested applications	**Suitable for:** ICC
Species reactivity	**Reacts with:** Species independent
Immunogen	D-glucosamine cross-linked to purifed fraction V bovine serum albumin with glutaraldehyde.
General notes	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). Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.05% Thimerosal (merthiolate) Constituents: PBS, 1% Whole serum
Purity	Whole antiserum
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab62666 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		

Application notes

ICC: 1/100.
Endogenous content mapping by LM and EM immunocytochemistry. True dilution at user dilution: 1/2000. Optimal fixation: 0.1-2.5% glutaraldehyde,1% formaldehyde using HPI (High Performance Immunocytochemistry). Minimum glutaraldehyde: 0.05% using EHPI (Enhanced HPI) with 4% formaldehyde.

Not yet tested in other applications.
Optimal dilutions/concentrations should be determined by the end user.

Target

Relevance

D-glucosamine, or glucosamine-6-phosphate is the biochemical precursor of all nitrogen-containing sugars. It is synthesized from fructose-6-phosphate and glutamine as the first step of the hexosamine biosynthesis pathway. The end-product of this pathway is UDP-N-acetylglucosamine (UDP-GlcNAc), which is then used for making glycosaminoglycans, proteoglycans, and glycolipids.

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