

Product datasheet

Anti-NPP-7 antibody ab231811

3 Images

Overview

Product name	Anti-NPP-7 antibody
Description	Rabbit polyclonal to NPP-7
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P
Species reactivity	Reacts with: Rat
Immunogen	Recombinant full length protein (His-T7-tag) corresponding to Rat NPP-7 aa 1 to the C-terminus. (Expressed in E.coli). Database link: Q5EZ72 Run BLAST with Run BLAST with
Positive control	WB: Recombinant rat NPP-7 and rat liver tissue lysate. IHC-P: Rat intestine tissue.
General notes	<p>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.</p> <p>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</p>

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 long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.40 Preservative: 0.02% Sodium azide Constituents: 44.12% PBS, 55.77% Glycerol (glycerin, glycerine)
Purity	Immunogen affinity purified
Purification notes	ab231811 was purified by antigen-specific affinity chromatography followed by Protein A affinity chromatography.
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab231811 in the following tested applications.

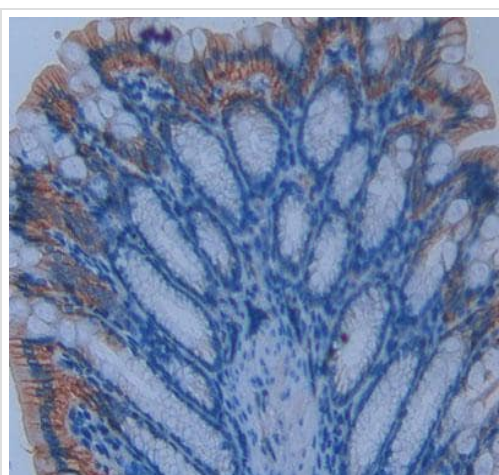
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use a concentration of 0.2 - 2 µg/ml. Predicted molecular weight: 50 kDa.
IHC-P		Use a concentration of 5 - 20 µg/ml.

Target

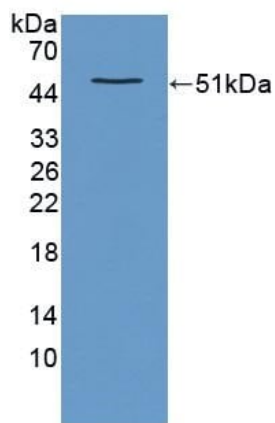
Function	Converts sphingomyelin to ceramide. Also has phospholipase C activity toward palmitoyl lyso-phosphocholine. Does not appear to have nucleotide pyrophosphatase activity.
Tissue specificity	Detected in the colon (at protein level). Expressed in the duodenum, jejunum and liver and at low levels in the ileum. Expression was very low in the esophagus, stomach and colon.
Sequence similarities	Belongs to the nucleotide pyrophosphatase/phosphodiesterase family.
Post-translational modifications	N-glycosylated; required for activity and transport to the plasma membrane.
Cellular localization	Membrane. Localized at the surface of the microvillar membrane in small intestine enterocytes, and in endosome-like structures situated beneath the microvillar membrane, and in Golgi complex.

Images



Formalin-fixed, paraffin-embedded rat intestine tissue stained for NPP-7 using ab231811 at 20 µg/ml in immunohistochemical analysis. DAB staining.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-NPP-7 antibody (ab231811)



Western blot - Anti-NPP-7 antibody (ab231811)

Anti-NPP-7 antibody (ab231811) at 2 µg/ml + Recombinant rat NPP-7

Predicted band size: 50 kDa



Western blot - Anti-NPP-7 antibody (ab231811)

Anti-NPP-7 antibody (ab231811) at 2 µg/ml + Rat liver lysate

Secondary

HRP-Linked Guinea pig Anti-Rabbit Ab at 1/1000 dilution

Predicted band size: 50 kDa

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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