

Anti-OPN3 antibody - N-terminal ab228748

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Overview

Product name	Anti-OPN3 antibody - N-terminal
Description	Rabbit polyclonal to OPN3 - N-terminal
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P, IHC-Fr
Species reactivity	Reacts with: Mouse, Human
Immunogen	Synthetic peptide within Human OPN3 (N terminal). The exact sequence is proprietary. (Carrier-protein conjugated). Database link: Q9H1Y3
Positive control	WB: A431 whole cell lysate. IHC-P: Human breast cancer tissue. IHC-Fr: Adult mouse retina 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: 7.00 Preservative: 0.025% Proclin 300 Constituents: 79% PBS, 20% Glycerol (glycerin, glycerine)
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab228748 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		1/500 - 1/3000. Predicted molecular weight: 45 kDa.
IHC-P		1/100 - 1/1000.
IHC-Fr		1/100 - 1/1000.

Target

Function

May play a role in encephalic photoreception.

Tissue specificity

Strongly expressed in brain. Highly expressed in the preoptic area and paraventricular nucleus of the hypothalamus. Shows highly patterned expression in other regions of the brain, being enriched in selected regions of the cerebral cortex, cerebellar Purkinje cells, a subset of striatal neurons, selected thalamic nuclei, and a subset of interneurons in the ventral horn of the spinal cord.

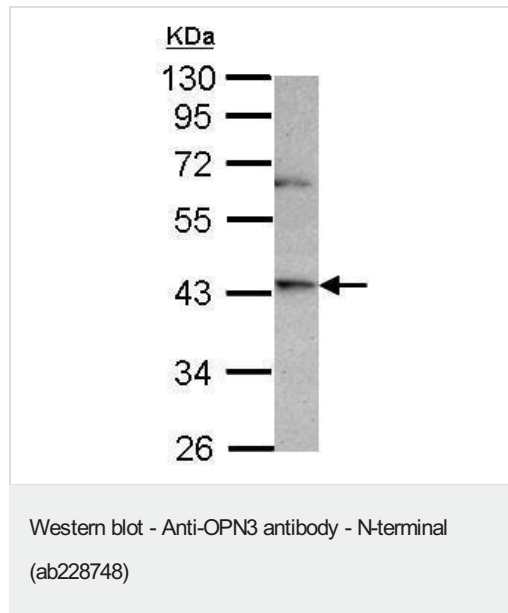
Sequence similarities

Belongs to the G-protein coupled receptor 1 family. Opsin subfamily.

Cellular localization

Membrane.

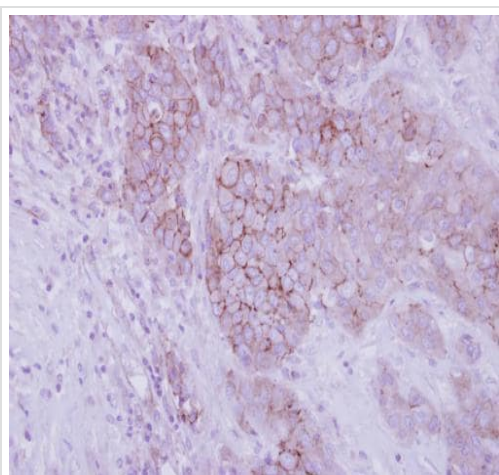
Images



Anti-OPN3 antibody - N-terminal (ab228748) at 1/1000 dilution + A431 (human epidermoid carcinoma cell line) whole cell lysate at 30 µg

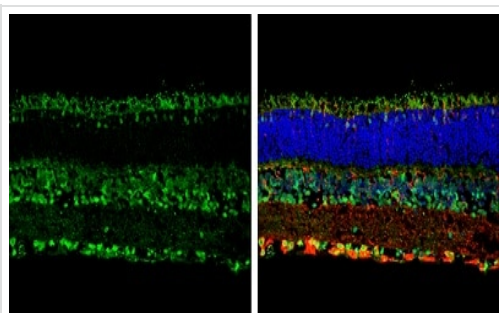
Predicted band size: 45 kDa

10% SDS-PAGE gel.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-OPN3 antibody - N-terminal (ab228748)

Paraffin-embedded human breast cancer tissue stained for OPN3 using ab228748 at 1/250 dilution in immunohistochemical analysis.



Immunohistochemistry (Frozen sections) - Anti-OPN3 antibody - N-terminal (ab228748)

Frozen sectioned adult mouse retina tissue stained for OPN3 using ab228748 at 1/250 dilution in immunohistochemical analysis (green).

The nuclear counterstain is DAPI (blue). Beta Tubulin 3 is detected with a beta Tubulin 3 antibody at 1/250 dilution (red).

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

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