

Product datasheet

Anti-Rhodopsin antibody [EPR7996] - BSA and Azide free ab249189

Recombinant RabMAb

7 Images

Overview

Product name	Anti-Rhodopsin antibody [EPR7996] - BSA and Azide free
Description	Rabbit monoclonal [EPR7996] to Rhodopsin - BSA and Azide free
Host species	Rabbit
Tested applications	Suitable for: IHC-P, WB Unsuitable for: ICC/IF or IP
Species reactivity	Reacts with: Rat, Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
General notes	<p>ab249189 is the carrier-free version of ab155097.</p> <p>Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.</p> <p>This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.</p> <p>Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>This product is compatible with the Maxpar[®] Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar[®] is a trademark of Fluidigm Canada Inc.</p> <p>Mouse: We have preliminary internal testing data to indicate this antibody may not react with this species. Please contact us for more information.</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Do Not Freeze.
Storage buffer	pH: 7.2

	Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR7996
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab249189 in the following tested applications.

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

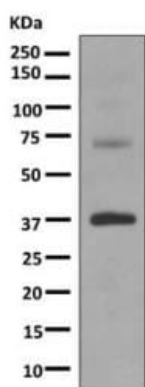
Application	Abreviews	Notes
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.
WB		Use at an assay dependent concentration. Predicted molecular weight: 39 kDa.

Application notes Is unsuitable for ICC/IF or IP.

Target

Function	Photoreceptor required for image-forming vision at low light intensity. Required for photoreceptor cell viability after birth. Light-induced isomerization of 11-cis to all-trans retinal triggers a conformational change leading to G-protein activation and release of all-trans retinal.
Tissue specificity	Rod shaped photoreceptor cells which mediates vision in dim light.
Involvement in disease	Retinitis pigmentosa 4 Night blindness, congenital stationary, autosomal dominant 1
Sequence similarities	Belongs to the G-protein coupled receptor 1 family. Opsin subfamily.
Post-translational modifications	Phosphorylated on some or all of the serine and threonine residues present in the C-terminal region. Contains one covalently linked retinal chromophore.
Cellular localization	Membrane. Synthesized in the inner segment (IS) of rod photoreceptor cells before vectorial transport to the rod outer segment (OS) photosensory cilia.

Images



Western blot - Anti-Rhodopsin antibody [EPR7996] - BSA and Azide free (ab249189)

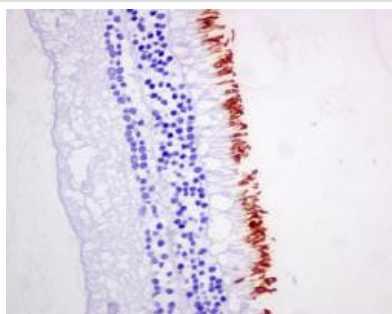
Anti-Rhodopsin antibody [EPR7996] ([ab155097](#)) at 1/1000 dilution
+ Rat eyeball lysate at 10 µg

Secondary

Goat anti-rabbit HRP at 1/2000 dilution

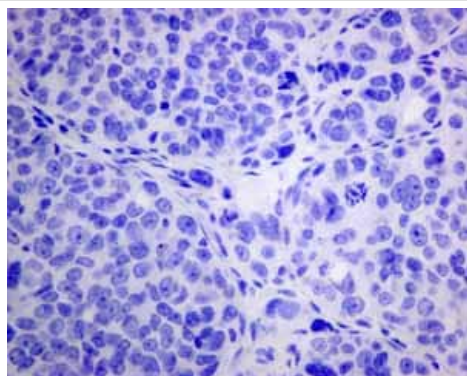
Predicted band size: 39 kDa

This data was developed using [ab155097](#), the same antibody clone in a different buffer formulation.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Rhodopsin antibody [EPR7996] - BSA and Azide free (ab249189)

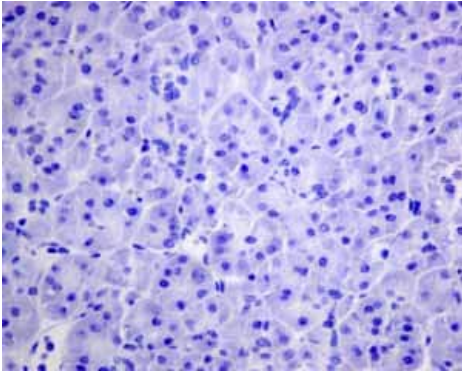
This data was developed using [ab155097](#), the same antibody clone in a different buffer formulation. Immunohistochemical analysis of paraffin-embedded Human retina tissue labeling Rhodopsin with [ab155097](#) at 1/50 dilution. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Rhodopsin antibody [EPR7996] - BSA and Azide free (ab249189)

This data was developed using [ab155097](#), the same antibody clone in a different buffer formulation. Immunohistochemical analysis of paraffin embedded Human ovarian carcinoma tissue using [ab155097](#) showing -ve staining.

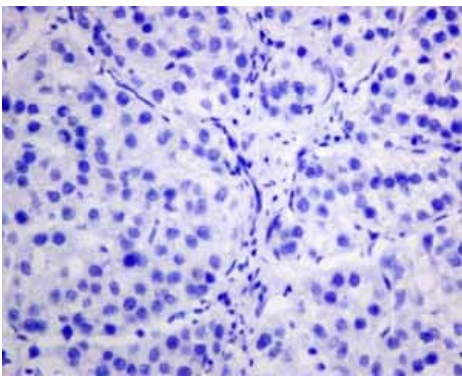
Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Rhodopsin antibody [EPR7996] - BSA and Azide free (ab249189)

This data was developed using [ab155097](#), the same antibody clone in a different buffer formulation. Immunohistochemical analysis of paraffin embedded Human normal pancreas tissue using [ab155097](#) showing -ve staining.

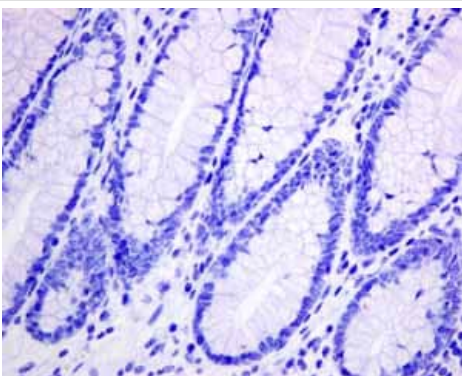
Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Rhodopsin antibody [EPR7996] - BSA and Azide free (ab249189)

This data was developed using [ab155097](#), the same antibody clone in a different buffer formulation. Immunohistochemical analysis of paraffin embedded Human hepatocellular carcinoma tissue using [ab155097](#) showing -ve staining.

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Rhodopsin antibody [EPR7996] - BSA and Azide free (ab249189)

This data was developed using [ab155097](#), the same antibody clone in a different buffer formulation. Immunohistochemical analysis of paraffin embedded Human normal colon tissue using [ab155097](#) showing -ve staining.

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

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

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