

Product datasheet

Anti-ASIC3 antibody [EPR26557-87] - BSA and Azide free ab305244

Recombinant RabMAb

6 Images

Overview

Product name	Anti-ASIC3 antibody [EPR26557-87] - BSA and Azide free
Description	Rabbit monoclonal [EPR26557-87] to ASIC3 - BSA and Azide free
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-Fr Unsuitable for: IHC-P or IP
Species reactivity	Reacts with: Mouse, Rat Does not react with: Human
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: Rat dorsal ganglion tissue lysate. IHC-Fr: Mouse and rat dorsal root ganglion (fresh).
General notes	<p>ab305244 is a carrier free version of ab307243</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>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none">- High batch-to-batch consistency and reproducibility- Improved sensitivity and specificity- Long-term security of supply- Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C.
Storage buffer	pH: 7.20 Constituent: 100% PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR26557-87
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab305244 in the following tested applications.

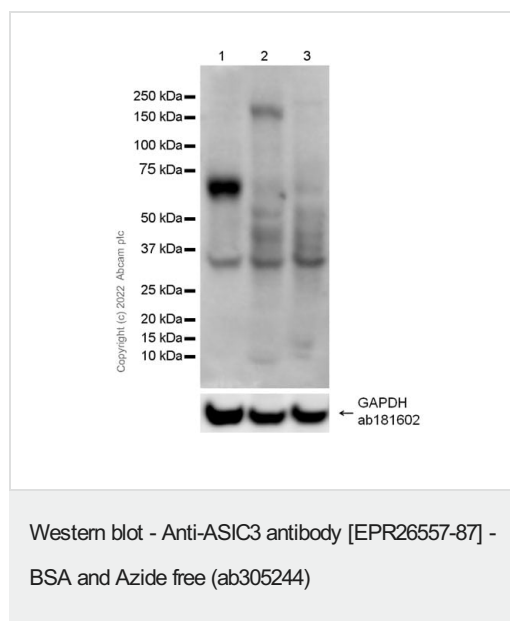
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use at an assay dependent concentration. Predicted molecular weight: 58 kDa.
IHC-Fr		Use at an assay dependent concentration.

Application notes Is unsuitable for IHC-P or IP.

Target

Function	Cation channel with high affinity for sodium, which is gated by extracellular protons and inhibited by the diuretic amiloride. Generates a biphasic current with a fast inactivating and a slow sustained phase. In sensory neurons is proposed to mediate the pain induced by acidosis that occurs in ischemic, damaged or inflamed tissue. May be involved in hyperalgesia. May play a role in mechanoreception. Heteromeric channel assembly seems to modulate channel properties.
Tissue specificity	Expressed by sensory neurons. Strongly expressed in brain, spinal chord, lung, lymph nodes, kidney, pituitary, heart and testis.
Sequence similarities	Belongs to the amiloride-sensitive sodium channel (TC 1.A.6) family. ACCN3 subfamily.
Developmental stage	Expressed in fetal tissues, expression increases in lung and kidney adult tissues.
Domain	The PDZ domain-binding motif is involved in interaction with LIN7A, GOPC and MAG11.
Post-translational modifications	Phosphorylated by PKA. Phosphorylated by PKC. In vitro, PRKCABP/PICK-1 is necessary for PKC phosphorylation and activation of a ACCN3/ASIC3-ACCN1/ASIC2b channel, but does not activate a homomeric ACCN3 channel.
Cellular localization	Cell membrane. Cytoplasm. Cell surface expression may be stabilized by interaction with LIN7B and cytoplasmic retention by interaction with DLG4. In part cytoplasmic in cochlea cells.



All lanes : Anti-ASIC3 antibody [EPR26557-87] ([ab305243](#)) at 1/1000 dilution

Lane 1 : Rat dorsal ganglion tissue lysate

Lane 2 : Rat lung tissue lysate

Lane 3 : Rat kidney tissue lysate

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated ([ab97051](#)) at 1/20000 dilution

Predicted band size: 58 kDa

Observed band size: 58 kDa

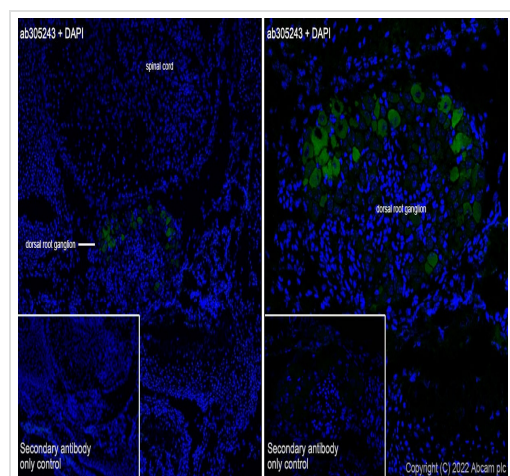
This data was developed using [ab305243](#), the same antibody clone in a different buffer formulation.

Negative controls: kidney, lung (PMID:11872753).

Blocking and diluting buffer and concentration: 5% NFD/MTBST.

Samples are non-boiled as boiling may cause protein aggregates.

Exposure time: 26 seconds.



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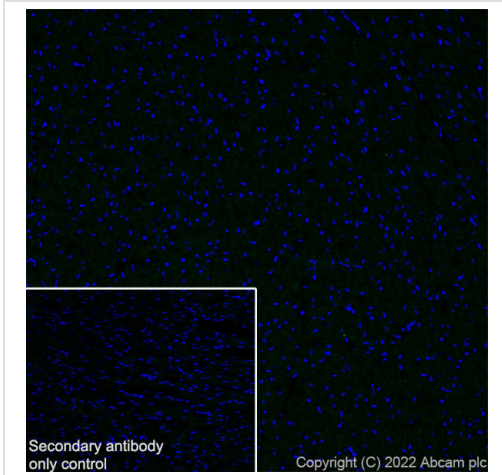
Immunohistochemical analysis of 4% PFA-fixed, 0.2% Triton X-100 permeabilized frozen mouse dorsal root ganglion (fresh) tissue labeling Acid-sensing ion channel 3 with [ab305243](#) at 1/100 dilution (4.76 µg/ml) followed by [ab150081](#) Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 dilution (2 µg/mL) (Green).

Confocal image showing positive staining on mouse dorsal root ganglion.

The nuclear counterstain was DAPI (Blue). The section was incubated with [ab305243](#) for 60 mins at room temperature. The section was then mounted using Fluoromount®.The immunostaining was performed on a Leica Biosystems BOND® RX instrument.

Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8).

Secondary antibody control: Secondary antibody is **ab150081** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 dilution (2 µg/mL).



Immunohistochemistry (Frozen sections) - Anti-ASIC3 antibody [EPR26557-87] - BSA and Azide free (ab305244)

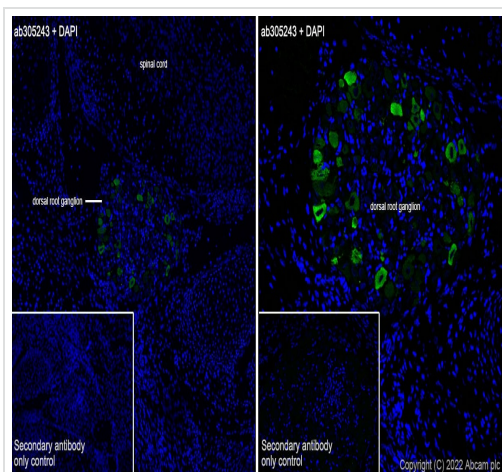
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Negative control: confocal image showing no staining on mouse heart (PMID: 9707631).

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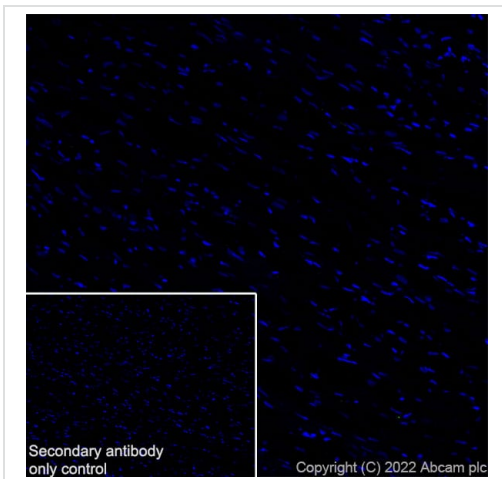
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Why choose a recombinant antibody?

 <p>Research with confidence Consistent and reproducible results</p>	 <p>Long-term and scalable supply Recombinant technology</p>
 <p>Success from the first experiment Confirmed specificity</p>	 <p>Ethical standards compliant Animal-free production</p>

Anti-ASIC3 antibody [EPR26557-87] - BSA and Azide free (ab305244)

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

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