abcam

Product datasheet

Anti-Endothelin A Receptor/ET-A antibody ab76259

6 References 3 Images

Overview

Product name	Anti-Endothelin A Receptor/ET-A antibody
Description	Rabbit polyclonal to Endothelin A Receptor/ET-A
Host species	Rabbit
Tested applications	**Suitable for:** WB, ICC/IF, IHC-P
Species reactivity	**Reacts with:** Human, African green monkey **Predicted to work with:** Mouse
Immunogen	Synthetic peptide within Human Endothelin A Receptor/ET-A aa 378-427 (C terminal). The exact sequence is proprietary. (NP_001948.1). Sequence: NCFQSCLCCCCYQSKSLMTSVPMNGTSIQWKNHDQNNH NTDRSSHKDSMN Database link: **P25101** (Peptide available as **ab154991**) Run BLAST with Run BLAST with
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. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	pH: 7.40 Preservative: 0.02% Sodium azide Constituents: 50% Glycerol, 0.87% Sodium chloride, PBS
Purity	Immunogen affinity purified

Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab76259 in the following tested applications.

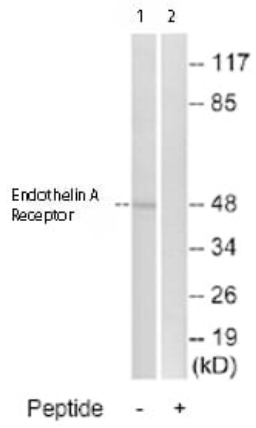
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/500 - 1/1000. Predicted molecular weight: 49 kDa.
ICC/IF		1/500 - 1/1000.
IHC-P		Use a concentration of 4 µg/ml. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

Target

Function	Receptor for endothelin-1. Mediates its action by association with G proteins that activate a phosphatidylinositol-calcium second messenger system. The rank order of binding affinities for ET-A is: ET1 > ET2 >> ET3.
Tissue specificity	Isoform 1, isoform 3 and isoform 4 are expressed in a variety of tissues, with highest levels in the aorta and cerebellum, followed by lung, atrium and cerebral cortex, lower levels in the placenta, kidney, adrenal gland, duodenum, colon, ventricle and liver but no expression in umbilical vein endothelial cells. Within the placenta, isoform 1, isoform 2, isoform 3 and isoform 4 are expressed in the villi and stem villi vessels.
Sequence similarities	Belongs to the G-protein coupled receptor 1 family. Endothelin receptor subfamily. EDNRA sub-subfamily.
Cellular localization	Cell membrane.

Images



Western blot - Anti-Endothelin A Receptor/ET-A antibody (ab76259)

All lanes : Anti-Endothelin A Receptor/ET-A antibody (ab76259) at 1/500 dilution

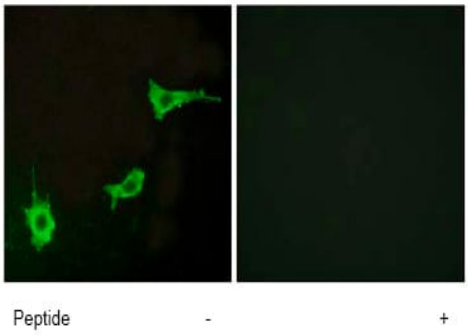
Lane 1 : Extracts from COS-7 cells

Lane 2 : Extracts from COS-7 cells plus 5µg immunizing peptide

Lysates/proteins at 5 µg per lane.

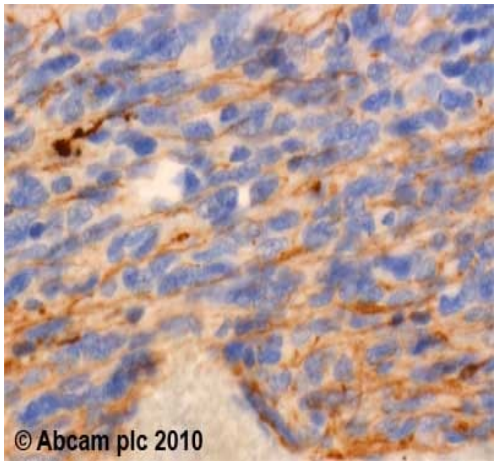
Predicted band size: 49 kDa

Observed band size: 49 kDa



Immunocytochemistry/ Immunofluorescence - Anti-Endothelin A Receptor/ET-A antibody (ab76259)

Immunofluorescence analysis of LOVO cells using ab76259 at a 1/500 dilution.
Left image un-treated.
Right image treated with immunizing peptide.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Endothelin A Receptor/ET-A antibody (ab76259)

ab76259 (4µg/ml) staining Endothelin A/ET-A receptor in human cerebellum using an automated system (DAKO Autostainer Plus). Using this protocol there is strong staining of the endothelium. Sections were rehydrated and antigen retrieved with the Dako 3 in 1 AR buffer EDTA pH 9.0 in a DAKO PT link. Slides were peroxidase blocked in 3% H2O2 in methanol for 10 mins. They were then blocked with Dako Protein block for 10 minutes (containing casein 0.25% in PBS) then incubated with primary antibody for 20 min and detected with Dako envision flex amplification kit for 30 minutes. Colorimetric detection was completed with Diaminobenzidine for 5 minutes. Slides were counterstained with Haematoxylin and coverslipped under DePeX. Please note that, for manual staining, optimization of primary antibody concentration and incubation time is recommended. Signal amplification may be required.

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

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