

Product datasheet

Anti-ANTXR2/CMG-2 antibody [EPR7717] ab129004

Recombinant RabMAb

★★★★☆ [2 Abreviews](#) [1 References](#) [6 Images](#)

Overview

Product name	Anti-ANTXR2/CMG-2 antibody [EPR7717]
Description	Rabbit monoclonal [EPR7717] to ANTXR2/CMG-2
Host species	Rabbit
Specificity	The mouse recommendation is based on the WB results. We do not guarantee IHC for mouse.
Tested applications	Suitable for: WB, IHC-P, ICC/IF Unsuitable for: Flow Cyt or IP
Species reactivity	Reacts with: Mouse, Human
Immunogen	Synthetic peptide within Human ANTXR2/CMG-2 aa 400-500. The exact sequence is proprietary.
Positive control	WB: Human fetal heart, ECV304 and PC3 lysates, Mouse brain and heart lysate; IHC-P: Human colon tissue; ICC/IF: PC3 cells.
General notes	<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 -20°C. Stable for 12 months at -20°C.
Storage buffer	<p>pH: 7.20</p> <p>Preservative: 0.01% Sodium azide</p> <p>Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture supernatant</p>
Purity	Protein A purified
Clonality	Monoclonal

Clone number	EPR7717
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab129004 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

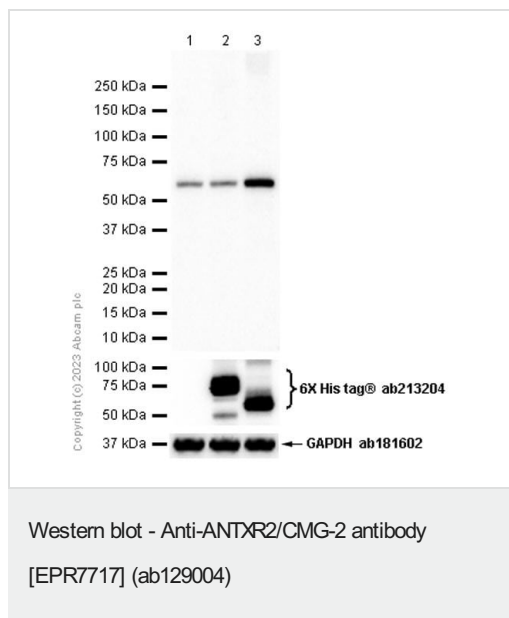
Application	Abreviews	Notes
WB	★★★★★ (1)	1/1000 - 1/10000. Detects a band of approximately 55 kDa (predicted molecular weight: 54 kDa).
IHC-P		1/250 - 1/500. Perform heat mediated antigen retrieval before commencing with IHC staining protocol. Please note: ab129004 seems to be not suitable for the use in IHC-P with mouse samples.
ICC/IF		1/250 - 1/500.

Application notes Is unsuitable for Flow Cyt or IP.

Target

Function	Necessary for cellular interactions with laminin and the extracellular matrix.
Tissue specificity	Expressed in prostate, thymus, ovary, testis, pancreas, colon, heart, kidney, lung, liver, peripheral blood leukocytes, placenta, skeletal muscle, small intestine and spleen.
Involvement in disease	Defects in ANTXR2 are the cause of infantile systemic hyalinoses (ISH) [MIM:236490]. This autosomal recessive syndrome is similar to JHF, but has an earlier onset and a more severe course. Symptoms appear at birth or within the first months of life, with painful, swollen joint contractures, osteopenia, osteoporosis and livid red hyperpigmentation over bony prominences. Patients develop multiple subcutaneous skin tumors and gingival hypertrophy. Hyaline deposits in multiple organs, recurrent infections and intractable diarrhea often lead to death within the first 2 years of life. Surviving children may suffer from severely reduced mobility due to joint contractures. Defects in ANTXR2 are the cause of juvenile hyaline fibromatosis (JHF) [MIM:228600]. JHF is an autosomal recessive syndrome that is similar to ISH but takes a milder course. It is characterized by hyaline deposition in the dermis, multiple subcutaneous skin tumors and gingival hypertrophy, followed by progressive joint contractions, osteopenia and osteoporosis that may lead to a severe limitation of mobility.
Sequence similarities	Belongs to the ATR family. Contains 1 VWFA domain.
Domain	Binding to PA seems to be effected through the VWA domain.
Cellular localization	Secreted; Cell membrane. Expressed at the cell surface and Endoplasmic reticulum membrane. Expressed predominantly within the endoplasmic reticulum and not at the plasma membrane.

Images



All lanes : Anti-ANTXR2/CMG-2 antibody [EPR7717] (ab129004) at 1/1000 dilution

Lane 1 : HEK-293T (human epithelial cell from embryonic kidney transformed with large T antigen) transfected with an empty expression vector, whole cell lysate

Lane 2 : HEK-293T transfected with full length His-tagged Human ANTR1 expression vectors, whole cell lysate

Lane 3 : HEK-293T transfected with full length His-tagged Human ANTR2 expression vectors, whole cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

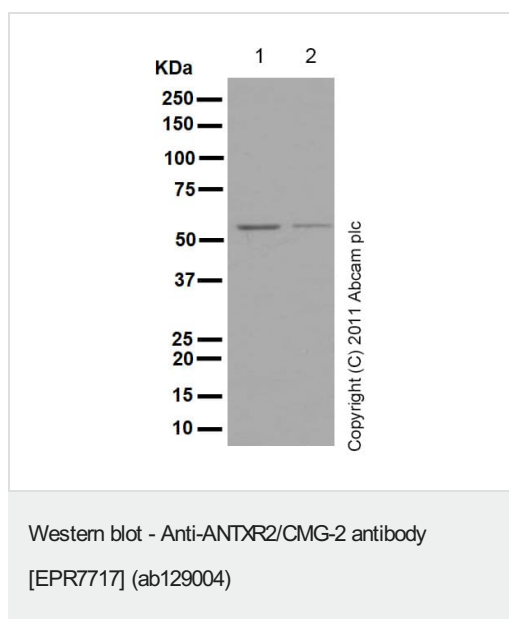
Predicted band size: 54 kDa

Observed band size: 55 kDa

Exposure time: 60 seconds

Blocking and dilution buffer: 5% NFDM/TBST.

ab129004 doesn't recognize overexpressed ANTXR1.



All lanes : Anti-ANTXR2/CMG-2 antibody [EPR7717] (ab129004) at 1/1000 dilution

Lane 1 : Mouse brain lysate

Lane 2 : Mouse heart lysate

Lysates/proteins at 20 µg per lane.

Secondary

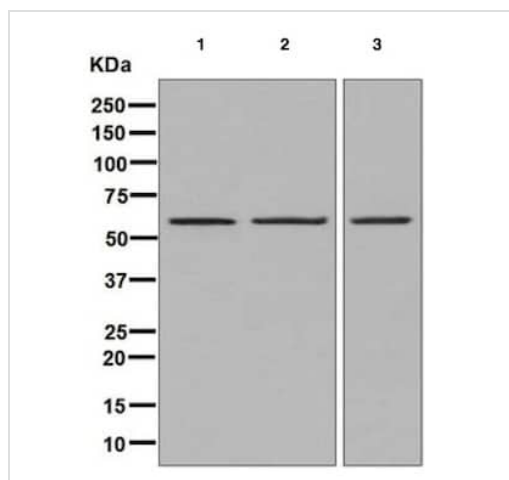
All lanes : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

Predicted band size: 54 kDa

Observed band size: 55 kDa

Exposure time: 180 seconds

Blocking and diluting buffer and concentration: 5% NFDM/TBST.



Western blot - Anti-ANTXR2/CMG-2 antibody
[EPR7717] (ab129004)

All lanes : Anti-ANTXR2/CMG-2 antibody [EPR7717] (ab129004)
at 1/1000 dilution

Lane 1 : Human fetal heart tissue lysate

Lane 2 : ECV304 cell lysate

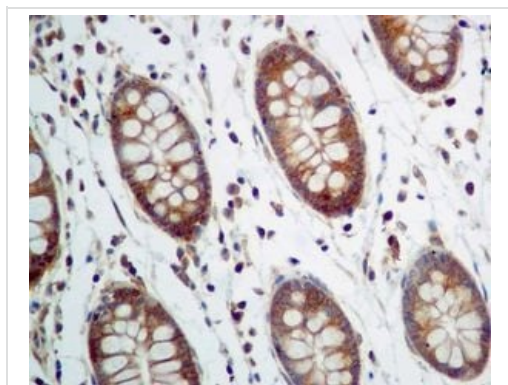
Lane 3 : PC3 cell lysate

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Goat anti-Rabbit HRP at 1/2000 dilution

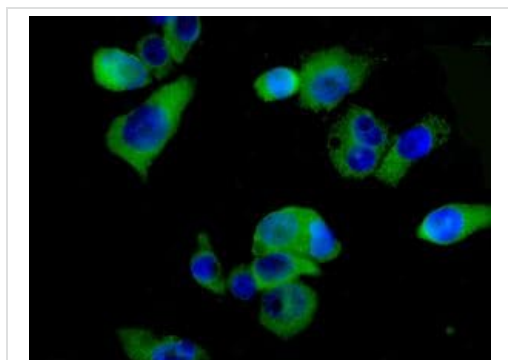
Predicted band size: 54 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-
embedded sections) - Anti-ANTXR2/CMG-2 antibody
[EPR7717] (ab129004)

ab129004, at 1/250 dilution, staining ANT XR2/CMG-2 in paraffin-
embedded Human colon tissue by Immunohistochemistry.

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



Immunocytochemistry/ Immunofluorescence - Anti-
ANTXR2/CMG-2 antibody [EPR7717] (ab129004)

ab129004, at 1/250 dilution staining ANT XR2/CMG-2 in PC3 cells
by Immunofluorescence.

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

Anti-ANTXR2/CMG-2 antibody [EPR7717]
(ab129004)

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

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