

Product datasheet

Anti-DDR2 antibody [EPR18826-119] ab280354

Recombinant **RabMAb**

6 Images

Overview

Product name	Anti-DDR2 antibody [EPR18826-119]
Description	Rabbit monoclonal [EPR18826-119] to DDR2
Host species	Rabbit
Tested applications	Suitable for: WB Unsuitable for: Flow Cyt, ICC/IF, IHC-P or IP
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: HT-1080, HUVEC, A-204, A375, Human stomach, ovary, lung, Mouse ovary, lung, C2C12, C6, Rat ovary and His-tagged human DDR2 recombinant protein (aa22-399).
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 +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.01% Sodium azide Constituents: 59.94% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR18826-119
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab280354 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		1/1000. Predicted molecular weight: 97 kDa.

Application notes

Is unsuitable for Flow Cyt, ICC/IF, IHC-P or IP.

Target

Function

This tyrosine kinase receptor for fibrillar collagen mediates fibroblast migration and proliferation. Contributes to cutaneous wound healing.

Tissue specificity

The major 10 kDa transcript is expressed in high levels in heart and lung, less in brain, placenta, liver, skeletal muscle, pancreas, and kidney.

Involvement in disease

Defects in DDR2 are the cause of spondyloepimetaphyseal dysplasia short limb-hand type (SEMD-SL) [MIM:271665]. A bone disease characterized by short-limbed dwarfism, a narrow chest with pectus excavatum, brachydactyly in the hands and feet, a characteristic craniofacial appearance and premature calcifications. The radiological findings are distinctive and comprise short long bones throughout the skeleton with striking epiphyses that are stippled, flattened and fragmented and flared, irregular metaphyses. Platyspondyly in the spine with wide intervertebral spaces is observed and some vertebral bodies are pear-shaped with central humps, anterior protrusions and posterior scalloping.

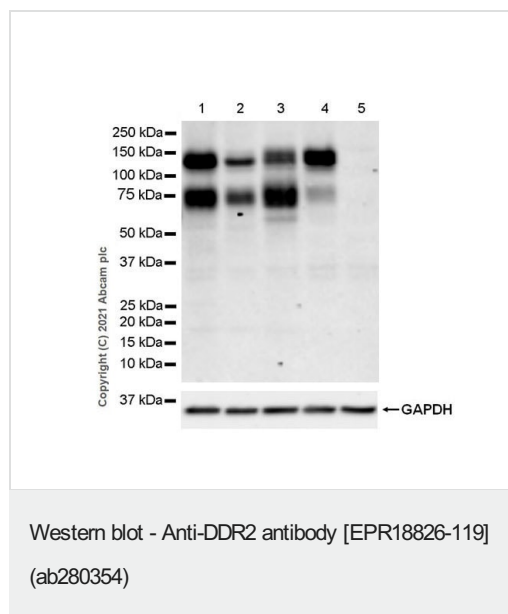
Sequence similarities

Belongs to the protein kinase superfamily. Tyr protein kinase family. Insulin receptor subfamily. Contains 1 F5/8 type C domain.
Contains 1 protein kinase domain.

Cellular localization

Membrane.

Images



All lanes : Anti-DDR2 antibody [EPR18826-119] (ab280354) at 1/1000 dilution

Lane 1 : HT-1080 (human fibrosarcoma epithelial cell) whole cell lysate

Lane 2 : HUVEC (human umbilical vein endothelial cell) whole cell lysate

Lane 3 : A-204 (human muscle rhabdomyosarcoma) whole cell lysate

Lane 4 : A375 (human malignant melanoma epithelial cell) whole cell lysate

Lane 5 : MDA-MB-231 (human breast adenocarcinoma epithelial cell) whole cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/100000 dilution (Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated)

Predicted band size: 97 kDa

Observed band size: 120-130,70 kDa

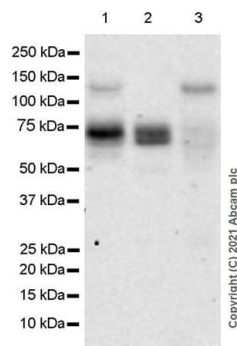
Blocking and diluting buffer and concentration: 5% NFDM/TBST

This blot was developed using a higher sensitivity ECL substrate.

The expression pattern is consistent with what has been described in the literature (PMID: 15111304, 29616590).

Negative control: MDA-MB-231 (PMID: 28147276, 29616590)

Exposure time: 158 seconds.



Western blot - Anti-DDR2 antibody [EPR18826-119] (ab280354)

All lanes : Anti-DDR2 antibody [EPR18826-119] (ab280354) at 1/1000 dilution

Lane 1 : Human stomach tissue lysate

Lane 2 : Human ovary tissue lysate

Lane 3 : Human lung tissue lysate

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG (HRP) with minimal cross-reactivity with human IgG at 1/2000 dilution

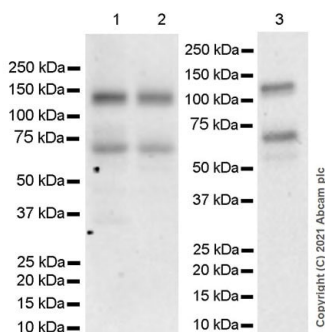
Predicted band size: 97 kDa

Observed band size: 120-130,70 kDa

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

The expression pattern is consistent with what has been described in the literature (PMID: 15111304, 29616590).

Exposure time: 3 minutes.



Western blot - Anti-DDR2 antibody [EPR18826-119] (ab280354)

All lanes : Anti-DDR2 antibody [EPR18826-119] (ab280354) at 1/1000 dilution

Lane 1 : Mouse ovary tissue lysate

Lane 2 : Mouse lung tissue lysate

Lane 3 : C2C12 (mouse myoblasts myoblast) whole cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/100000 dilution (Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated)

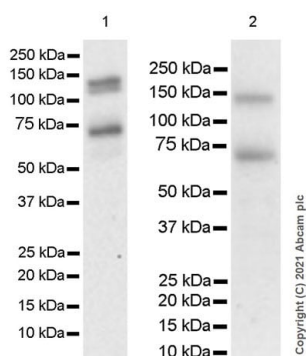
Predicted band size: 97 kDa

Observed band size: 120-130,70 kDa

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

The expression pattern is consistent with what has been described in the literature (PMID: 15111304, 29616590).

Exposure time: 3 minutes.



Western blot - Anti-DDR2 antibody [EPR18826-119] (ab280354)

All lanes : Anti-DDR2 antibody [EPR18826-119] (ab280354) at 1/1000 dilution

Lane 1 : C6 (rat glial tumor glial cell) whole cell lysate

Lane 2 : Rat ovary tissue lysate

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/100000 dilution (Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated)

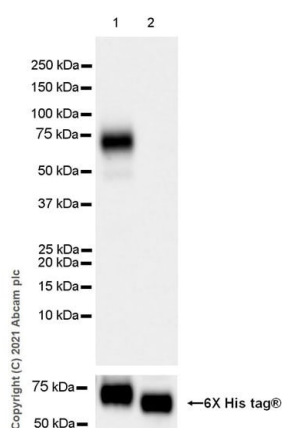
Predicted band size: 97 kDa

Observed band size: 120-130,70 kDa

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

The expression pattern is consistent with what has been described in the literature (PMID: 15111304, 29616590).

Exposure time: 3 minutes.



Western blot - Anti-DDR2 antibody [EPR18826-119] (ab280354)

All lanes : Anti-DDR2 antibody [EPR18826-119] (ab280354) at 1/1000 dilution

Lane 1 : His-tagged human DDR2 recombinant protein (aa22-399)

Lane 2 : His-tagged human DDR1 recombinant protein (aa21-416)

Lysates/proteins at 0.03 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/100000 dilution (Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated)

Predicted band size: 97 kDa

Observed band size: 60 kDa





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

This antibody can not recognize human DDR1.

Both recombinant proteins are made in house and extracted from HEK-293 expression systems.

Exposure time: 8 seconds

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-DDR2 antibody [EPR18826-119] (ab280354)

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

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