abcam

ab309139

Anti-CUX1+CUX2 antibody [EPR26509-154]

Recombinant | RabMAb | 20ul selling size

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Clone number	EPR26509-154
Purification technique	Affinity purification Protein A
Concentration	0.5 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

IHC-P

Tested

Species	Transfected cell line - Mouse
Dilution info	1/8000
Notes	Perform heat-mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Species	Mouse
Dilution info	1/500
Notes	Perform heat-mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Species	Rat
Dilution info	1/500
Notes	Perform heat-mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Not recommended

Species	Human, Transfected cell lysate - Human
Dilution info	-
Notes	-

WB

Tested

Species	Transfected cell lysate - Human
Dilution info	1/1000
Notes	-

Species	Human
Dilution info	1/1000
Notes	-

Species	Mouse
Dilution info	1/1000
Notes	-

Species	Rat
Dilution info	1/1000
Notes	-

Not recommended

Species	Transfected cell line - Mouse
Dilution info	-
Notes	-

IHC-Fr

Tested

Species	Mouse
Dilution info	1/50
Notes	-

Species	Rat
Dilution info	1/50
Notes	-

Expected

Species	Human
Dilution info	Use at an assay dependent concentration.
Notes	-

Not recommended

Species	Transfected cell line - Mouse, Transfected cell lysate - Human
Dilution info	-
Notes	-

Flow Cyt (Intra)

Tested

Species	Mouse
Dilution info	1/50
Notes	-

Expected

Species	Human
Dilution info	Use at an assay dependent concentration.
Notes	-

Not recommended

Species	Rat, Transfected cell line - Mouse, Transfected cell lysate - Human
Dilution info	-
Notes	-

ICC/IF

Not recommended

Species	Mouse, Rat, Human, Transfected cell line - Mouse, Transfected cell lysate - Human
Dilution info	-
Notes	-

Target data

See full target information Cux2

Function	Transcription factor involved in the control of neuronal proliferation and differentiation in the brain (PubMed:18033766, PubMed:20510857). Regulates dendrite development and branching, dendritic spine formation, and synaptogenesis in cortical layers II-III (PubMed:20510857). Binds to DNA in a sequence-specific manner.

Storage

Shipped at conditions	Conditional Ambient
Appropriate short-term storage duration	1-2 weeks
Appropriate short-term storage conditions	+4°C

Appropriate long-term storage conditions	-20°C
Aliquoting information	Upon delivery aliquot
Storage information	Avoid freeze / thaw cycle

Notes

Patented technology
Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.

What are the advantages of a recombinant monoclonal antibody?
This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free batch production

For more information, read more on recombinant antibodies.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

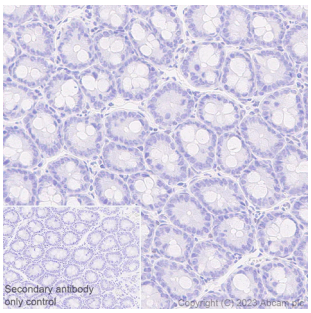
We do not recommend this combination. It is not covered by our product promise.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

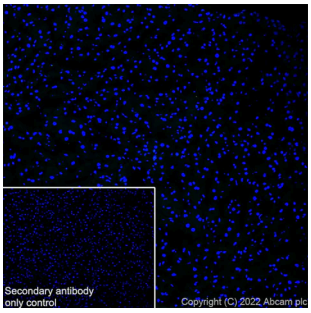
15 product images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CUX1+CUX2 antibody [EPR26509-154] (ab309139)

CUX1+CUX2 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining of Rat small intestine using rabbit Anti-CUX1+CUX2 antibody

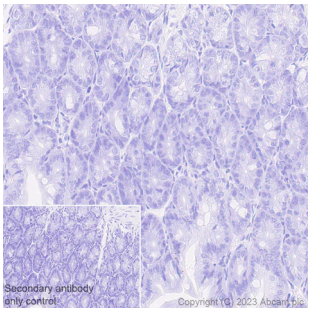
Immunohistochemical analysis of paraffin-embedded Rat small intestine tissue labeling CUX1+CUX2 with ab309139 at 1/500 (4.78 ug/ml) followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection) was used. Low expression tissue: almost no staining on rat small intestine. The section was incubated with ab309139 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument Counterstained with Hematoxylin. Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection) was used. Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins.



Immunohistochemistry (Frozen sections) - Anti-CUX1+CUX2 antibody [EPR26509-154] (ab309139)

CUX1+CUX2 Immunohistochemistry (Frozen sections) staining of Rat liver (fresh) using rabbit Anti-CUX1+CUX2 antibody

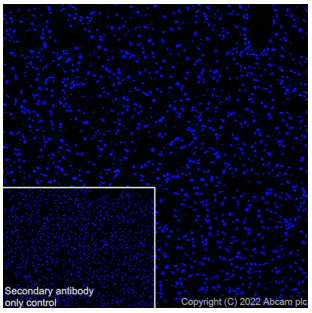
Immunohistochemical analysis of 4% PFA-fixed, 0.2% Triton X-100 permeabilized frozen Rat liver (fresh) tissue labeling CUX1+CUX2 with ab309139 at 1/50 (9.56 ug/ml) dilution followed by ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 2 ug/mL dilution (Green). Negative control: confocal image showing no staining on rat liver (PMID: 8798433). The nuclear counterstain was DAPI (Blue). The section was incubated with ab309139 for 60 mins at room temperature. The section was then mounted using Fluoromount®. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. The image was taken with a confocal microscope (Leica-Microsystems, TCS SP8). is observed. The nuclear counterstain was DAPI (Blue). Secondary antibody control: Secondary antibody is ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 2 ug/mL dilution.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CUX1+CUX2 antibody [EPR26509-154] (ab309139)

CUX1+CUX2 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining of Mouse small intestine using rabbit Anti-CUX1+CUX2 antibody

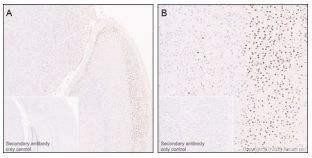
Immunohistochemical analysis of paraffin-embedded Mouse small intestin tissue labeling CUX1+CUX2 with ab309139 at 1/500 (4.78 ug/ml) followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection) was used. Low expression tissue: almost no staining on mouse small intestine (PMID:8879483). The section was incubated with ab309139 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument Counterstained with Hematoxylin. Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection) was used. Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins.



Immunohistochemistry (Frozen sections) - Anti-CUX1+CUX2 antibody [EPR26509-154] (ab309139)

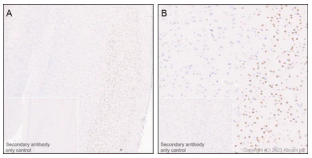
CUX1+CUX2 Immunohistochemistry (Frozen sections) staining of Mouse liver (fresh) using rabbit Anti-CUX1+CUX2 antibody

Immunohistochemical analysis of 4% PFA-fixed, 0.2% Triton X-100 permeabilized frozen Mouse liver (fresh) tissue labeling CUX1+CUX2 with ab309139 at 1/50 (9.56 ug/ml) dilution followed by ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 2 ug/mL dilution (Green). Negative control: confocal image showing no staining on mouse liver (PMID: 8798433). The nuclear counterstain was DAPI (Blue). The section was incubated with ab309139 for 60 mins at room temperature. The section was then mounted using Fluoromount®. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. The image was taken with a confocal microscope (Leica-Microsystems, TCS SP8). The nuclear counterstain was DAPI (Blue). Secondary antibody control: Secondary antibody is ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 2 ug/mL dilution.



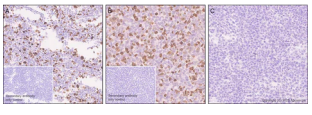
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CUX1+CUX2 antibody [EPR26509-154] (ab309139)

Immunohistochemical analysis of paraffin-embedded Mouse cerebrum tissue labeling CUX1+CUX2 with ab309139 at 1/500 (4.78 ug/ml) followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection) was used. Positive staining on mouse cerebrum with intense staining on superficial cortical layers. (A) Low□powered (magnification, x40) and (B) high□powered (magnification, x100) microscopic images. The section was incubated with ab309139 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument Counterstained with Hematoxylin. Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection) was used. Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CUX1+CUX2 antibody [EPR26509-154] (ab309139)

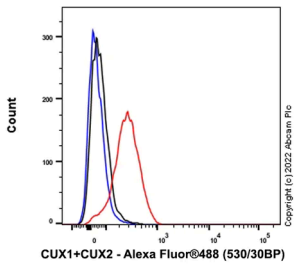
Immunohistochemical analysis of paraffin-embedded Rat cerebrum tissue labeling CUX1+CUX2 with ab309139 at 1/500 (4.78 ug/ml) followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection) was used. Positive staining on rat cerebrum with intense staining on superficial cortical layers. (A) Low□powered (magnification, x40) and (B) high□powered (magnification, x100) microscopic images. The section was incubated with ab309139 for 30 mins at room temperature.The immunostaining was performed on a Leica Biosystems BOND® RX instrument Counterstained with Hematoxylin. Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection) was used. Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CUX1+CUX2 antibody [EPR26509-154] (ab309139)

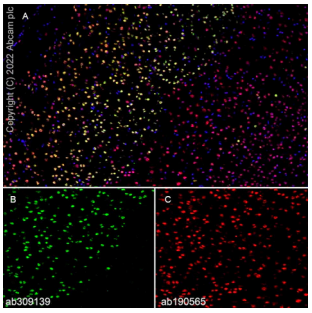
Immunohistochemical analysis of paraffin-embedded (A) HEK-293T (human tissue labeling CUX1+CUX2 with ab309139 at 1/8000 (0.06 ug/ml) followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection) was used. Positive staining on HEK-293T transfected with a His-tagged mouse CUX2 construct (image A). Positive staining on HEK-293T transfected with a His-tagged mouse CUX1 construct (image B). No staining on HEK-293T transfected with empty plasmid (image C). The section was incubated with ab309139 for 30 mins at room temperature.The

immunostaining was performed on a Leica Biosystems BOND® RX instrument Counterstained with Hematoxylin. Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection) was used. Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins.



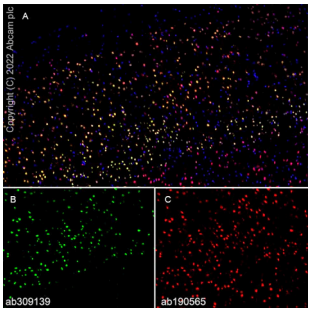
Flow Cytometry (Intracellular) - Anti-CUX1+CUX2 antibody [EPR26509-154] (ab309139)

Flow cytometric analysis of 4% paraformaldehyde fixed 90% methanol permeabilized mouse primary neuron cells labeling CUX1+CUX2 with ab309139 at 1/50 dilution (1 ug)/Red (Red) compared with a Rabbit monoclonal IgG (ab172730) (Black) isotype control and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (Blue). A Goat Anti-Rabbit IgG (Alexa Fluor® 488, ab150081) at 1/5000 dilution was used as the secondary antibody.



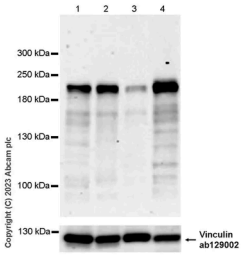
Immunohistochemistry (Frozen sections) - Anti-CUX1+CUX2 antibody [EPR26509-154] (ab309139)

Immunohistochemical analysis of 4% PFA-fixed, 0.2% Triton X-100 permeabilized frozen Mouse cortex (fresh) tissue labeling CUX1+CUX2 with ab309139 at 1/50 (9.56 ug/ml) dilution followed by ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 2 ug/mL dilution (Green). Panel A: merged staining of anti-CUX1+CUX2 (ab309139, green) and anti-NeuN (ab190565, red) on mouse cortex. Panel B: anti-CUX1+CUX2 stained on the mouse cortex. Panel C: anti-NeuN stained in neurons of mouse cortex. The section was incubated in two rounds of staining: in the order of ab309139 and ab190565 for 1 hr at room temperature. The nuclear counterstain was DAPI (Blue). The section was then mounted using Fluoromount®. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. The image was taken with a confocal microscope (Leica-Microsystems, TCS SP8). is observed. The nuclear counterstain was DAPI (Blue). Secondary antibody control: Secondary antibody is ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 2 ug/mL dilution.



Immunohistochemistry (Frozen sections) - Anti-CUX1+CUX2 antibody [EPR26509-154] (ab309139)

Immunohistochemical analysis of 4% PFA-fixed, 0.2% Triton X-100 permeabilized frozen Rat cortex (fresh) tissue labeling CUX1+CUX2 with ab309139 at 1/50 (9.56 ug/ml) dilution followed by ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 2 ug/mL dilution (Green). Panel A: merged staining of anti-CUX1+CUX2 (ab309139, green) and anti-NeuN (ab190565, red) on rat cortex. Panel B: anti-CUX1+CUX2 stained on the rat cortex. Panel C: anti-NeuN stained in neurons of rat cortex. The section was incubated in two rounds of staining: in the order of ab309139 and ab190565 for 1 hr at room temperature. The nuclear counterstain was DAPI (Blue). The section was then mounted using Fluoromount®. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. The image was taken with a confocal microscope (Leica-Microsystems, TCS SP8). is observed. The nuclear counterstain was DAPI (Blue). Secondary antibody control: Secondary antibody is ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 2 ug/mL dilution.



Western blot - Anti-CUX1+CUX2 antibody [EPR26509-154] (ab309139)

CUX1+CUX2 Western blot staining using rabbit Anti-CUX1+CUX2 antibody

Blocking and diluting buffer and concentration: 5% NFDM/TBST
Lysates were freshly made and used for Western blotting immediately to minimize protein degradation.

This blot was developed using a high sensitivity ECL substrate. The high-sensitivity ECL substrate used allows for the detection of proteins in the mid-femtogram range.

The bands beneath the target band (200 kDa) are expected to be degradation products.

In Western blot, anti- Vinculin antibody (ab129002) loading control staining at 1/10000 dilution.

All lanes:
Western blot - Anti-CUX1+CUX2 antibody [EPR26509-154] (ab309139) at 1/1000 dilution

Lane 1:
C6 (rat glial tumor glial cell) whole cell lysate at 20 µg

Lane 2:
Neuro-2a (mouse neuroblastoma neuroblast) whole cell lysate at 20 µg

Lane 3:
U-87 MG (human glioblastoma-astrocytoma epithelial cell) whole cell lysate at 20 µg

Lane 4:
SH-SY5Y (human neuroblastoma epithelial cell) whole cell lysate at 20 µg

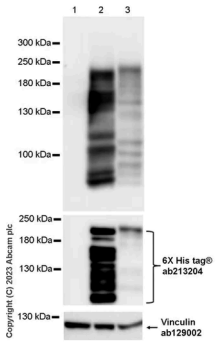
Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/100000 dilution

Developed using the ECL technique.

Observed band size: 200 kDa

Exposure time: 180s



Western blot - Anti-CUX1+CUX2 antibody [EPR26509-154] (ab309139)

CUX1+CUX2 Western blot staining using rabbit Anti-CUX1+CUX2 antibody

Blocking and diluting buffer and concentration: 5% NFDM/TBST In Western blot, anti-His antibody (ab213204) staining at 1/5000 dilution. In Western blot, anti- Vinculin antibody (ab129002) loading control staining at 1/10000 dilution.
All lanes:
Western blot - Anti-CUX1+CUX2 antibody [EPR26509-154] (ab309139) at 1/1000 dilution

Lane 1:
293T cells transfected with an empty vector containi a His-tag whole cell lysate at 20 µg

Lane 2:
293T cells transfected with a human CUX1 expression vector containi a His-tag whole cell lysate at 20 µg

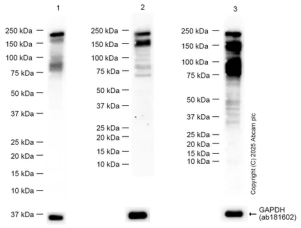
Lane 3:
293T cells transfected with a human CUX2 expression vector containi a His-tag whole cell lysate at 20 µg

Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/100000 dilution

Observed band size: 200 kDa

Exposure time: 6s



Western blot - Anti-CUX1+CUX2 antibody [EPR26509-154] (ab309139)

CUX1+CUX2 Western blot staining using rabbit Anti-CUX1+CUX2 antibody

Exposure time: Lane 1: 10 seconds; Lane 2-3: 40 seconds

In Western blot, Anti-GAPDH antibody [EPR16891] - Loading Control (ab181602) staining at 1/1000000 dilution.

All lanes:
Western blot - Anti-CUX1+CUX2 antibody [EPR26509-154] (ab309139) at 1/1000 dilution

Lane 1:
SH-SY5Y (human neuroblastoma epithelial cell) whole cell lysate at 20 µg

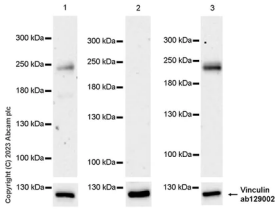
Lane 2:
Neuro-2a (mouse neuroblastoma neuroblast) whole cell lysate at 20 µg

Lane 3:
Rat cerebellum tissue lysate at 20 µg

Secondary

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

Observed band size: 200 kDa



Western blot - Anti-CUX1+CUX2 antibody [EPR26509-154] (ab309139)

CUX1+CUX2 Western blot staining using rabbit Anti-CUX1+CUX2 antibody

Blocking and diluting buffer and concentration: 5% NFDM/TBST Low expression: small intestine tissue(PMID:8879483). Lysates were freshly made and used for Western blotting immediately to minimize protein degradation. In Western blot, anti- Vinculin antibody (ab129002) loading control staining at 1/10000 dilution.
All lanes:
Western blot - Anti-CUX1+CUX2 antibody [EPR26509-154] (ab309139) at 1/1000 dilution

Lane 1:
Mouse cerebral cortex tissue lysate at 20 µg

Lane 2:
Mouse small intestine tissue lysate at 20 µg

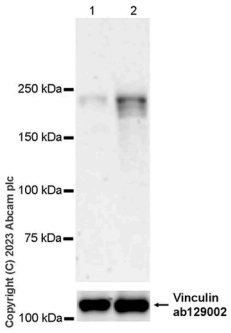
Lane 3:
Rat cerebral cortex tissue lysate at 20 µg

Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/100000 dilution

Observed band size: 200 kDa

Exposure time: 180s



Western blot - Anti-CUX1+CUX2 antibody [EPR26509-154] (ab309139)

CUX1+CUX2 Western blot staining using rabbit Anti-CUX1+CUX2 antibody

Blocking and diluting buffer and concentration: 5% NFDM/TBST
Low expression: Liver tissue(PMID:8879483).

This blot was developed using a high sensitivity ECL substrate. The high-sensitivity ECL substrate used allows for the detection of proteins in the mid-femtogram range.

Lysates were freshly made and used for Western blotting immediately to minimize protein degradation.

In Western blot, anti- Vinculin antibody (ab129002) loading control staining at 1/10000 dilution.

All lanes:
Western blot - Anti-CUX1+CUX2 antibody [EPR26509-154] (ab309139) at 1/1000 dilution

Lane 1:
Mouse liver tissue lysate at 20 µg

Lane 2:
Mouse testis tissue lysate at 20 µg

Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/100000 dilution

Developed using the ECL technique.

Observed band size: 200 kDa

Exposure time: 180s

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.