abcam

Product datasheet

Anti-STK33 antibody [EPR15343] ab206296

Recombinant RabMAb

3 References 8 Images

Overview

Product name	Anti-STK33 antibody [EPR15343]
Description	Rabbit monoclonal [EPR15343] to STK33
Host species	Rabbit
Tested applications	**Suitable for:** IHC-P, WB, ICC/IF
Species reactivity	**Reacts with:** Human
Immunogen	Recombinant fragment within Human STK33 aa 350 to the C-terminus. The exact sequence is proprietary. Database link: Q9BYT3
Positive control	WB; Jurkat and HEK293 whole cell lysates, Human testis lysate, HUman fetal kidney and spleen lysates. IHC-P; Human testis and Human fetal cardiac muscle tissue. ICC/IF; Jurkat cells.

General notes

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 production

For more information see here.

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

Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.

Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.

We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications & species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee.

In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.

We are also updating the applications & species that this product has been "predicted to work with," however this information is not covered by our Abpromise guarantee.

Applications & species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.

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, as well as customer reviews and Q&As.

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	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR15343
Isotype	IgG

Applications

Our Abpromise guarantee covers the use of **ab206296** 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
IHC-P		1/250. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
WB		1/1000. Detects a band of approximately 58, 50 kDa (predicted molecular weight: 58, 50 kDa).
ICC/IF		1/1000.

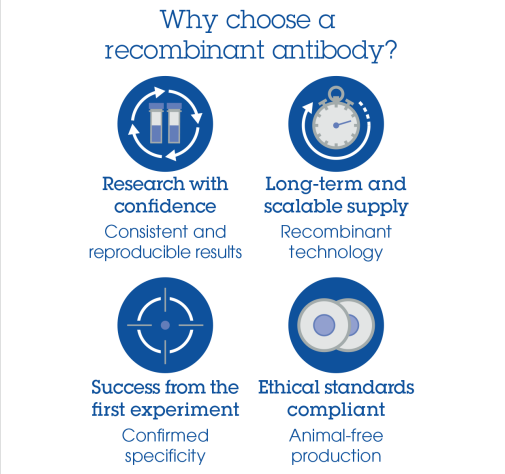
Target

Tissue specificity	Highly expressed in testis, fetal lung and heart, followed by pituitary gland, kidney, interventricular septum, pancreas, heart, trachea, thyroid gland and uterus. Weak hybridization signals were observed in the following tissues: amygdala, aorta, esophagus, colon ascending, colon transverse, skeletal muscle, spleen, peripheral blood leukocyte, lymph node, bone marrow, placenta, prostate, liver, salivary gland, mammary gland, some tumor cell lines, fetal brain, fetal liver, fetal spleen and fetal thymus. No signal at all was detectable in RNA from tissues of the nervous system.

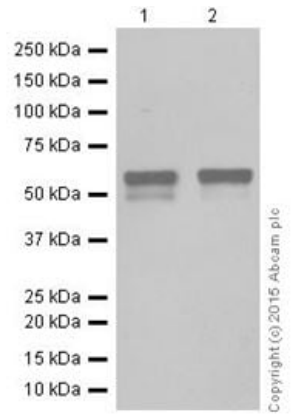
Sequence similarities	Belongs to the protein kinase superfamily. CAMK Ser/Thr protein kinase family. CaMK subfamily. Contains 1 protein kinase domain.
Cellular localization	Cytoplasm > perinuclear region.

Images

Anti-STK33 antibody [EPR15343] (ab206296)



Anti-STK33 antibody [EPR15343] (ab206296)



Western blot - Anti-STK33 antibody [EPR15343] (ab206296)

All lanes : Anti-STK33 antibody [EPR15343] (ab206296) at 1/1000 dilution

Lane 1 : Jurkat (Human T cell leukemia cell line from peripheral blood) whole cell lysate
Lane 2 : HEK293 (Human epithelial cell line from embryonic kidney) whole cell lysate

Lysates/proteins at 20 µg per lane.

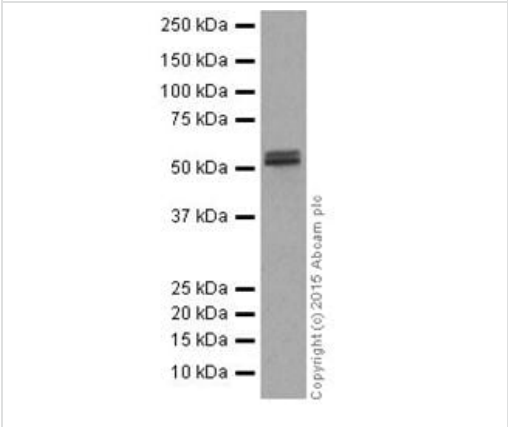
Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/100000 dilution

Predicted band size: 58, 50 kDa
Observed band size: 58 kDa
why is the actual band size different from the predicted?

Exposure time: 3 minutes

Blocking/dilution buffer: 5% NFDM/TBST.

Can recognize two isoforms. The predicted MW are 58KDa and 50KDa, respectively



Western blot - Anti-STK33 antibody [EPR15343] (ab206296)

Anti-STK33 antibody [EPR15343] (ab206296) at 1/1000 dilution + Human testis lysate at 10 µg

Secondary

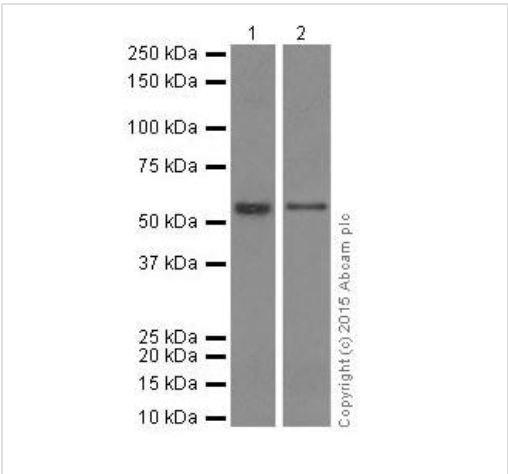
Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG at 1/100000 dilution

Predicted band size: 58, 50 kDa
Observed band size: 58, 50 kDa

Exposure time: 1 minute

Blocking/dilution buffer: 5% NFDM/TBST.

Can recognize two isoforms. The predicted MW are 58KDa and 50KDa, respectively



Western blot - Anti-STK33 antibody [EPR15343] (ab206296)

All lanes : Anti-STK33 antibody [EPR15343] (ab206296) at 1/1000 dilution

Lane 1 : Human fetal kidney lysate
Lane 2 : Human fetal spleen lysate

Lysates/proteins at 10 µg per lane.

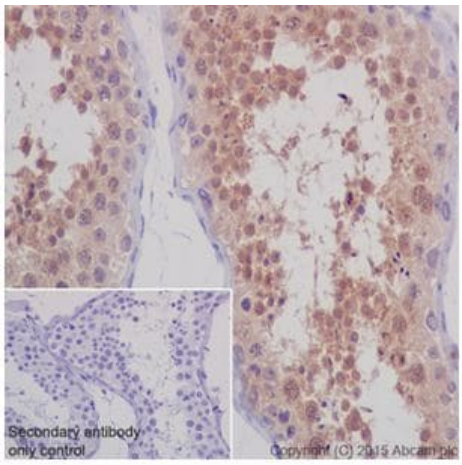
Secondary

All lanes : Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG at 1/100000 dilution

Predicted band size: 58, 50 kDa
Observed band size: 58 kDa why is the actual band size different from the predicted?

Blocking/dilution buffer: 5% NFDM/TBST.

Exposure time: Lane 1: 10 seconds;
Lane 2: 3 minutes



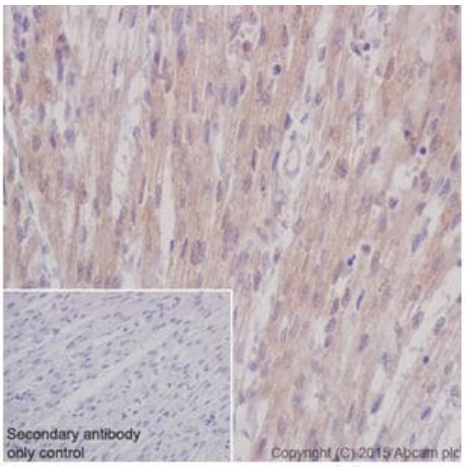
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-STK33 antibody [EPR15343] (ab206296)

Immunohistochemical analysis of paraffin-embedded human testis tissue labeling STK33 with ab206296 at 1/250 dilution followed by Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/500 dilution.

Nuclear and cytoplasmic staining on human testis tissue is observed.

Counter stained with Hematoxylin.
Negative control: Used PBS instead of primary ab, secondary ab is Goat Anti-Rabbit IgG H&L (HRP) (ab97051).

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



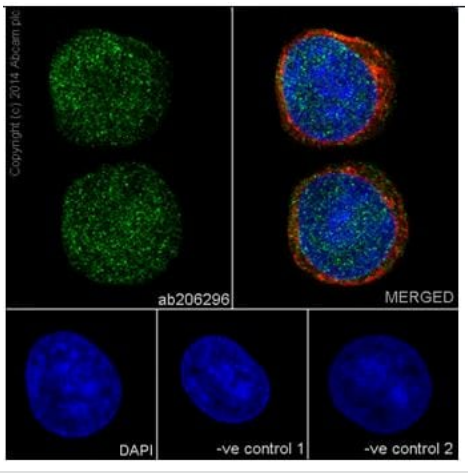
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-STK33 antibody [EPR15343] (ab206296)

Immunohistochemical analysis of paraffin-embedded human fetal cardiac tissue labeling STK33 with ab206296 at 1/250 dilution followed by Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/500 dilution.

Nuclear and cytoplasmic staining on human fetal cardiac muscle tissue is observed.

Counter stained with Hematoxylin.
Negative control: Used PBS instead of primary ab, secondary ab is Goat Anti-Rabbit IgG H&L (HRP) (ab97051).

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunocytochemistry/ Immunofluorescence - Anti-STK33 antibody [EPR15343] (ab206296)

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized Jurkat (Human T cell leukemia cells from peripheral blood) cells labeling STK33 with ab206296 at 1/1000 dilution, followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (ab150077) secondary antibody at 1/1000 dilution (green).

Cytoplasmic and nuclear staining on Jurkat cell line is observed.

The nuclear counterstain is DAPI (blue).

Tubulin is detected with anti-alpha Tubulin mouse MAb (ab7291) at 1/1000 dilution, followed by Goat Anti-Mouse IgG H&L (Alexa Fluor® 594) (ab150120) secondary antibody at 1/1000 dilution (red).
The negative controls are as follows:-
-ve control 1 - ab206296 at 1/1000 dilution, followed by Goat Anti-Mouse IgG H&L (Alexa Fluor® 594) (ab150120) secondary antibody at 1/1000 dilution.
-ve control 2. - anti-alpha Tubulin mouse MAb (ab7291) at 1/1000 dilution, followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (ab150077) secondary antibody at 1/1000 dilution.

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