abcam

Product datasheet

Anti-DPP9 antibody - Catalytic domain ab42080

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Overview

Product name	Anti-DPP9 antibody - Catalytic domain
Description	Rabbit polyclonal to DPP9 - Catalytic domain
Host species	Rabbit
Specificity	This antibody recognises all three forms of DPP9. This antibody does not recognise other DPP family members.
Tested applications	**Suitable for:** ICC/IF, WB, IHC-P
Species reactivity	**Reacts with:** Mouse, Rat, Cow, Human, Baboon
Immunogen	Synthetic peptide corresponding to Human DPP9. (Peptide available as ab44599)

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	Preservative: 0.05% Sodium azide Constituents: PBS, 50% Glycerol, 2.9% Sodium chloride
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our Abpromise guarantee covers the use of **ab42080** in the following tested applications.

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

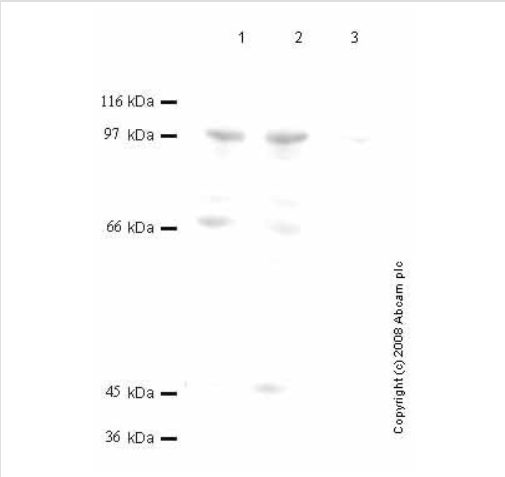
Application	Abreviews	Notes
ICC/IF		Use a concentration of 1 µg/ml.

Application	Abreviews	Notes
WB	★★★★★	1/1000 - 1/5000. Predicted molecular weight: 98 kDa. Recommended dilution 1/1000 with colourimetric substrates, 1/5000 dilution with chemiluminescent substrates. Dilution optimised using Chromogenic detection.
IHC-P	★★★★☆	1/50.

Target

Function	Dipeptidyl peptidase that cleaves off N-terminal dipeptides from proteins having a Pro or Ala residue at position 2.
Tissue specificity	Ubiquitously expressed, with highest levels in liver, heart and muscle, and lowest levels in brain.
Sequence similarities	Belongs to the peptidase S9B family. DPPIV subfamily.
Cellular localization	Cytoplasm > cytosol.

Images



Western blot - Anti-DPP9 antibody - Catalytic domain (ab42080)

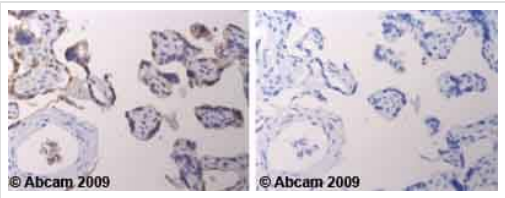
All lanes : Anti-DPP9 antibody - Catalytic domain (ab42080) at 1/1000 dilution

Lane 1 : Cell media from human prostate cancer DU145 cells (treated with SF)

Lane 2 : Cell media from human prostate cancer DU145 cells (treated with RA)

Lane 3 : Cell media from human prostate cancer DU145 cells (treated with IL1-beta)

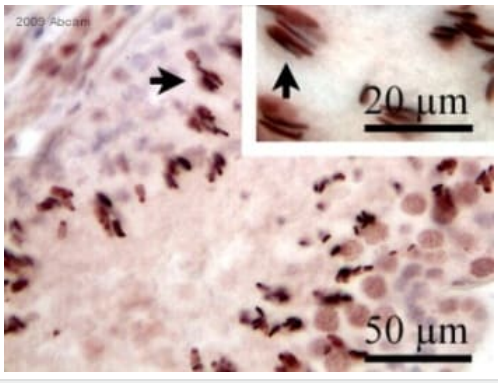
Predicted band size: 98 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-DPP9 antibody - Catalytic domain (ab42080)

Ab42080 staining Human normal placenta. Staining is localised to the membrane and cytoplasm.
Left panel: with primary antibody at 4 ug/ml. Right panel: isotype control.
Sections were stained using an automated system DAKO Autostainer Plus , at room temperature. Sections were rehydrated and antigen retrieved with the Dako 3-in-1 AR buffers EDTA pH 9.0 in a DAKO PT Link. Slides were peroxidase blocked in 3% H2O2 in methanol for 10 minutes. They were then blocked with Dako

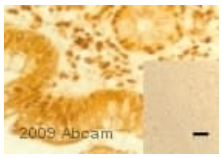
Protein block for 10 minutes (containing casein 0.25% in PBS) then incubated with primary antibody for 20 minutes and detected with Dako Envision Flex amplification kit for 30 minutes. Colorimetric detection was completed with diaminobenzidine for 5 minutes. Slides were counterstained with Haematoxylin and coverslipped under DePeX. Please note that for manual staining we recommend to optimize the primary antibody concentration and incubation time (overnight incubation), and amplification may be required.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-DPP9 antibody - Catalytic domain (ab42080)

This image is a courtesy of an Abreview submitted by Veronique Dubois

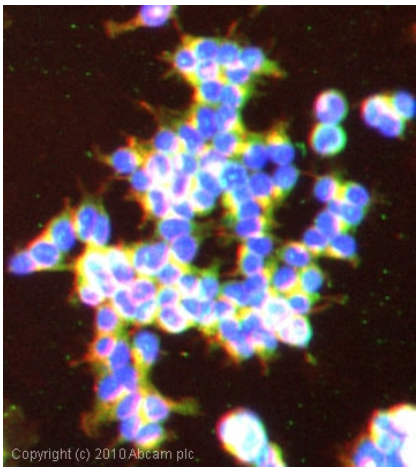
ab42080 staining DPP9 in bovine testicular tissue section by Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections). Tissue underwent paraformaldehyde fixation before heat mediated antigen retrieval in Tris/EDTA buffer pH 9.0 and then the sample was blocked with 3% hydrogen peroxide in TBS for 10 minutes at 25°C. The sections were treated for 10 min with 3% H2O2 in TBS to block endogenous peroxidase activity and incubated subsequently for 30 min with 10% nonimmune goat serum to minimize nonspecific antibody binding. The primary antibody (1/50) was incubated with sample in TBS, 0.3% Triton X-100, 0.1 % BSA for 16 hours at 4°C. A Biotin conjugated goat polyclonal to rabbit IgG was used at dilution 1/200 as secondary antibody.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-DPP9 antibody - Catalytic domain (ab42080)

This image is courtesy of an Abreview submitted by Denise Yu

ab42080 at 1/50 dilution staining DPP9 in rat brain tissue by immunohistochemistry (formalin/PFA-fixed paraffin-embedded sections). Sections were paraformaldehyde fixed, permeabilized in 0.2% saponin prior to blocking in 3% H2O2 in PBS for 10 minutes at RT. The sample was incubated with ab42080 for 1 hour. A HRP conjugated goat polyclonal to rabbit Ig, diluted 1/100, was used as the secondary antibody.



Immunocytochemistry/ Immunofluorescence - Anti-DPP9 antibody - Catalytic domain (ab42080)

ICC/IF image of ab42080 stained Hek293 cells. The cells were 100% methanol fixed (5 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab42080, 1µg/ml) overnight at +4°C. The secondary antibody (green) was Alexa Fluor® 488 goat anti-rabbit IgG (H+L) used at a 1/1000 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.

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