


Anti-MED13L antibody ab87831

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Overview

Product name	Anti-MED13L antibody
Description	Rabbit polyclonal to MED13L
Host species	Rabbit
Tested applications	Suitable for: WB, IP, IHC-P
Species reactivity	Reacts with: Human Predicted to work with: Rat, Rabbit, Horse, Guinea pig, Dog, Chimpanzee, Ferret, Rhesus monkey, Orangutan, Elephant 
Immunogen	Synthetic peptide within Human MED13L aa 550-600. The exact sequence is proprietary. (GeneID 23389). Database link: NP_056150.1
Positive control	Whole cell lysate from HeLa cells
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>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, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	pH: 7 Preservative: 0.09% Sodium azide Constituent: Tris citrate/phosphate
Purity	Immunogen affinity purified
Purification notes	Antibody was affinity purified using an epitope specific to MED13L immobilized on solid support.
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab87831 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		1/2000 - 1/10000. Predicted molecular weight: 243 kDa.
IP		Use at 2-5 µg/mg of lysate.
IHC-P		1/500 - 1/2000. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

Target

Function

Component of the Mediator complex, a coactivator involved in the regulated transcription of nearly all RNA polymerase II-dependent genes. Mediator functions as a bridge to convey information from gene-specific regulatory proteins to the basal RNA polymerase II transcription machinery. Mediator is recruited to promoters by direct interactions with regulatory proteins and serves as a scaffold for the assembly of a functional preinitiation complex with RNA polymerase II and the general transcription factors. This subunit may specifically regulate transcription of targets of the Wnt signaling pathway and SHH signaling pathway.

Tissue specificity

Highly expressed in brain (cerebellum), heart (aorta), skeletal muscle, kidney, placenta and peripheral blood leukocytes. Highly expressed in fetal brain.

Involvement in disease

Defects in MED13L are a cause of transposition of the great arteries, dextro-looped (DTGA) [MIM:608808]. DTGA consists of complete inversion of the great vessels, so that the aorta incorrectly arises from the right ventricle and the pulmonary artery incorrectly arises from the left ventricle. This creates completely separate pulmonary and systemic circulatory systems, an arrangement that is incompatible with life. Patients often have atrial and/or ventricular septal defects or other types of shunting that allow some mixing between the circulations in order to support life minimally, but surgical intervention is always required.

Note=A chromosomal aberration involving MED13L is found in a patient with transposition of the great arteries, dextro-looped and mental retardation. Translocation t(12;17)(q24.1;q21).

Sequence similarities

Belongs to the Mediator complex subunit 13 family.

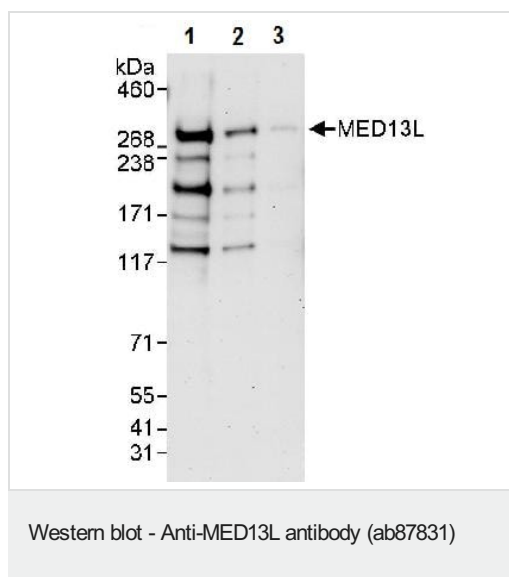
Post-translational modifications

Phosphorylated upon DNA damage, probably by ATM or ATR.

Cellular localization

Nucleus.

Images



All lanes : Anti-MED13L antibody (ab87831) at 0.1 µg/ml

Lane 1 : HeLa whole cell lysate at 50 µg/ml

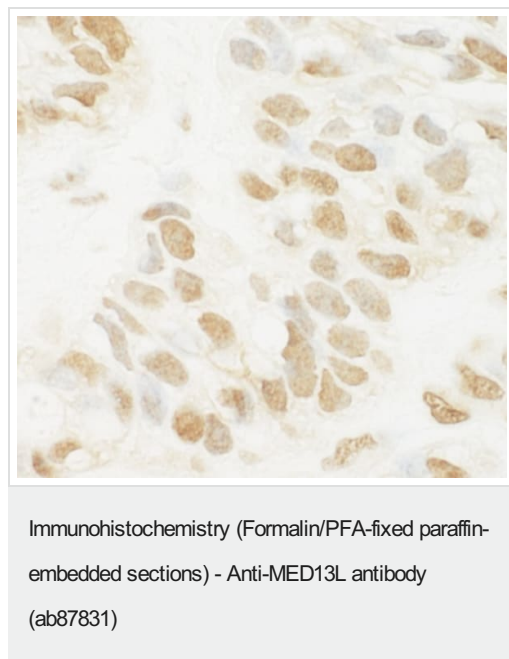
Lane 2 : HeLa whole cell lysate at 15 µg/ml

Lane 3 : HeLa whole cell lysate at 5 µg/ml

Developed using the ECL technique.

Predicted band size: 243 kDa

Exposure time: 3 minutes



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human breast carcinoma tissue labelling MED13L with ab87831 at 1/1000 (1µg/ml). Detection: DAB.



Immunoprecipitation - Anti-MED13L antibody
(ab87831)

Detection of MED13L by Immunoprecipitation in whole cell lysate from HeLa cells (1 mg for IP, 20% of IP loaded), using ab87831 at 3 µg/mg lysate for IP and at 1 µg/ml for subsequent WB detection. Chemiluminescence with an exposure time of 30 seconds.

Lane 1 : Anti-MED13L antibody (ab87831) at 1 µg/ml ((and used for IP at 3ug/mg lysate))

Lane 2 : Anti-MED13L antibody (ab87831) at 1 µg/ml (For IP: Rabbit anti-MED13L antibody only (which recognizes a downstream epitope))

Lane 3 : Anti-MED13L antibody (ab87831) at 1 µg/ml (For IP: Control IgG only)

Lane 1 : For WB: HeLa whole cell lysate at 50ug. For IP: HeLa whole cell lysate (1mg for IP, 20% of IP loaded)

Lane 2 : For WB: HeLa whole cell lysate at 15ug. For IP: HeLa whole cell lysate (1mg for IP, 20% of IP loaded)

Lane 3 : For WB: HeLa whole cell lysate at 5ug. For IP: HeLa whole cell lysate (1mg for IP, 20% of IP loaded)

Developed using the ECL technique.

Exposure time: 30 seconds

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