abcam

Product datasheet

Anti-MED12 antibody ab70842

★★★★★ 3 Abreviews 11 References 3 Images

Overview

Product name	Anti-MED12 antibody
Description	Rabbit polyclonal to MED12
Host species	Rabbit
Tested applications	**Suitable for:** ICC/IF, IHC-P, IP, WB
Species reactivity	**Reacts with:** Mouse, Human **Predicted to work with:** Rat, Cow, Dog, Pig, Chimpanzee, Rhesus monkey, Orangutan
Immunogen	Synthetic peptide corresponding to Human MED12 aa 2150-2177 (C terminal). Immunogen derived form sequence corresponding to amino acids 2150 - C-terminus.
General notes	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. 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

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 Constituents: 1.815% Tris, 1.764% Sodium citrate, 0.021% PBS
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee	Our **Abpromise guarantee** covers the use of ab70842 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 at an assay dependent concentration.
IHC-P	★★★★★ (1)	1/500 - 1/2000. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
IP		Use at 2-5 µg/mg of lysate.
WB	★★★★★ (2)	1/2000 - 1/10000. Predicted molecular weight: 227 kDa.

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.

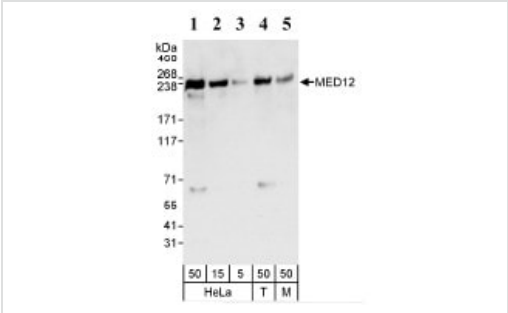
Tissue specificity
Ubiquitous.

Involvement in disease
Defects in MED12 are the cause of Opitz-Kaveggia syndrome (OKS) [MIM:305450]; also known as FG syndrome type 1 (FGS1) or FG syndrome (FGS). OKS is an X-linked disorder characterized by mental retardation, relative macrocephaly, hypotonia and constipation.
Defects in MED12 are the cause of Lujan-Fryns syndrome (LUJFRYS) [MIM:309520]; also known as X-linked mental retardation with marfanoid habitus. Clinically, Lujan-Fryns syndrome can be distinguished from Opitz-Kaveggia syndrome by tall stature, hypernasal voice, hyperextensible digits and high nasal root.

Sequence similarities
Belongs to the Mediator complex subunit 12 family.

Cellular localization
Nucleus.

Images



Western blot - Anti-MED12 antibody (ab70842)

All lanes : Anti-MED12 antibody (ab70842) at 0.1 µg/ml

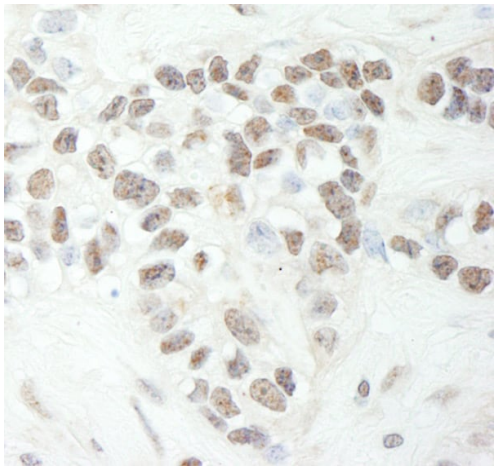
Lane 1 : Whole cell lysate from HeLa cells at 50 µg
Lane 2 : Whole cell lysate from HeLa cells at 15 µg
Lane 3 : Whole cell lysate from HeLa cells at 5 µg
Lane 4 : Whole cell lysate from 293T cells at 50 µg
Lane 5 : Whole cell lysate from NIH 3T3 cells at 50 µg

Developed using the ECL technique.

Predicted band size: 227 kDa

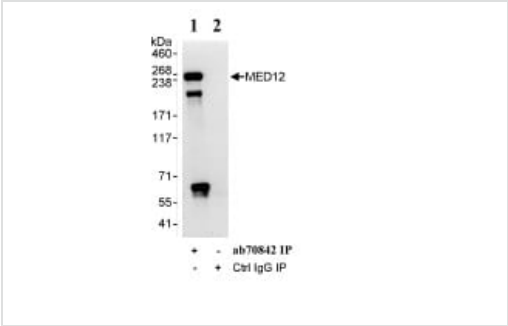
Observed band size: 238 kDa
Additional bands at: 65 kDa. We are unsure as to the identity of these extra bands.

Exposure time: 3 minutes



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MED12 antibody (ab70842)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human breast carcinoma tissue labelling MED12 with ab70842 at 1/1000 (1µg/ml). Detection: DAB.



Immunoprecipitation - Anti-MED12 antibody (ab70842)

Detection of Human MED12 by Immunoprecipitation using Whole cell lysate from HeLa cells (1 mg for IP, 20% of IP loaded), using ab70842 for IP at 3 µg/mg lysate. Subsequent WB detection was performed using ab70842 at 1 µg/ml.

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