

## Product datasheet

### Anti-MED12 antibody [BLR084G] ab275962

Recombinant

6 Images

#### Overview

<b>Product name</b>	Anti-MED12 antibody [BLR084G]
<b>Description</b>	Rabbit monoclonal [BLR084G] to MED12
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB, IP, IHC-P, ICC
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Human
<b>Immunogen</b>	Synthetic peptide corresponding to Human MED12 aa 2127-2177 (C terminal). Database link: <a href="#">Q93074</a>
<b>Positive control</b>	WB: HeLa, A549, MCF-7, HepG2, K562, RKO, TCMK-1, and NIH/3T3 cell lysate. IP: HeLa cells. IHC-P: Breast carcinoma, renal carcinoma. ICC: HCT-116 cells.
<b>General notes</b>	This product is sold under License from Bethyl Laboratories, Inc.

#### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	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.
<b>Storage buffer</b>	pH: 8.20 Preservative: 0.09% Sodium azide Constituents: 0.1% BSA, 99% Borate buffered saline
<b>Purity</b>	Tissue culture supernatant
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	BLR084G
<b>Isotype</b>	IgG

#### Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab275962 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		1/1000. Predicted molecular weight: 243 kDa.
IP		Use at an assay dependent concentration. 20 µl/1 mg lysate
IHC-P		1/100 - 1/500. Epitope retrieval with citrate buffer pH6.0 is recommended
ICC		1/100 - 1/500. Epitope retrieval with citrate buffer pH6.0 is recommended.

## 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.

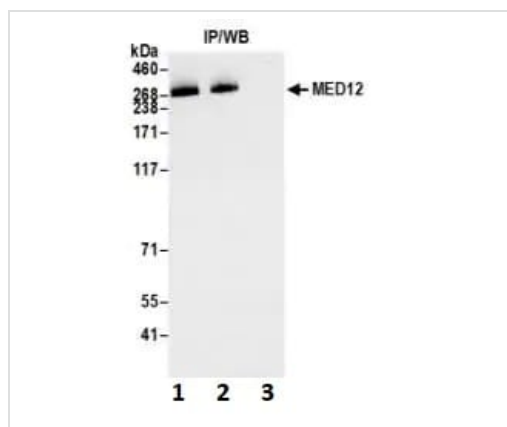
### Sequence similarities

Belongs to the Mediator complex subunit 12 family.

### Cellular localization

Nucleus.

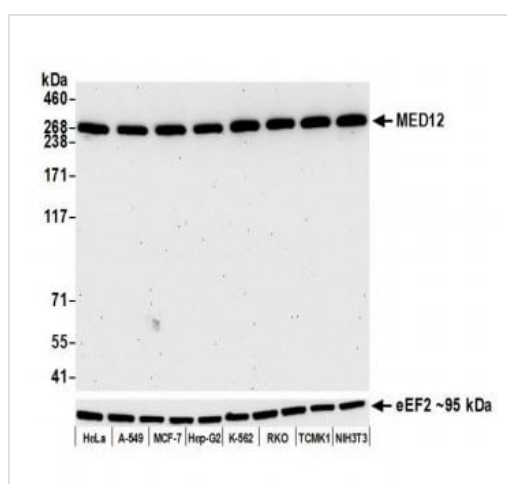
## Images



Immunoprecipitation - Anti-MED12 antibody  
[BLR084G] (ab275962)

Whole cell lysate (1.0 mg per IP reaction; 20% of IP loaded) from HeLa cells prepared using NETN lysis buffer.

ab275962 used for IP at 20 µl/mg lysate. For blotting immunoprecipitated MED12, ab275962 was used at 1/1000 dilution. Chemiluminescence with an exposure time of 10 seconds.



Western blot - Anti-MED12 antibody [BLR084G]  
(ab275962)

**All lanes** : Anti-MED12 antibody [BLR084G] (ab275962) at 1/1000 dilution

**Lane 1** : HeLa whole cell lysate

**Lane 2** : A549 whole cell lysate

**Lane 3** : MCF-7 whole cell lysate

**Lane 4** : HepG2 whole cell lysate

**Lane 5** : K562 whole cell lysate

**Lane 6** : RKO whole cell lysate

**Lane 7** : TCMK-1 whole cell lysate

**Lane 8** : NIH/3T3 whole cell lysate

Lysates/proteins at 50 µg per lane.

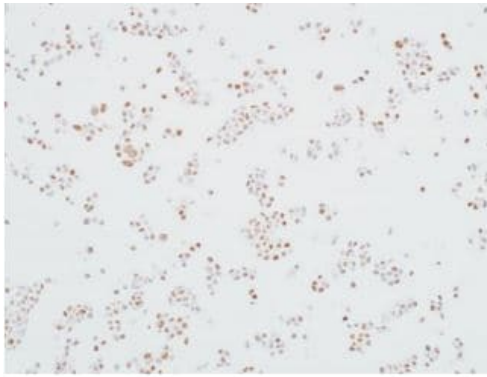
## Secondary

**All lanes** : HRP-conjugated goat anti-rabbit IgG

**Predicted band size:** 243 kDa

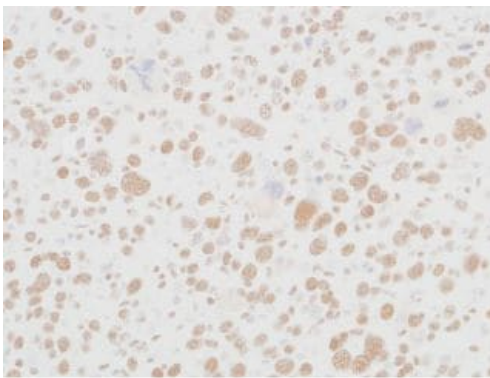
Chemiluminescence with an exposure time of 75 seconds.

Lower Panel: Rabbit anti-eEF2



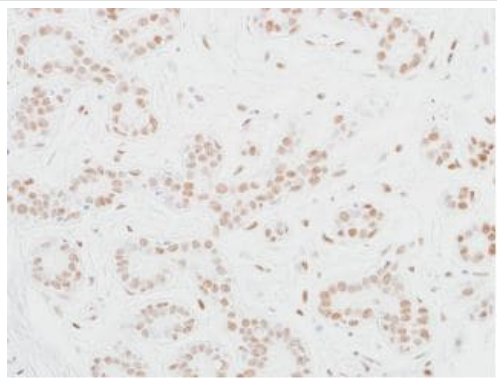
HCT-116 cells stained for MED12 using ab275962 at 1/500 dilution in immunocytochemistry.

Immunocytochemistry - Anti-MED12 antibody  
[BLR084G] (ab275962)



Paraffin embedded renal carcinoma tissue stained for MED12 using ab275962 at 1/500 dilution in immunohistochemical analysis.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MED12 antibody  
[BLR084G] (ab275962)



Paraffin embedded breast carcinoma tissue stained for MED12 using ab275962 at 1/500 dilution in immunohistochemical analysis.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MED12 antibody [BLR084G] (ab275962)

### Why choose a recombinant antibody?



**Research with confidence**  
Consistent and reproducible results



**Long-term and scalable supply**  
Recombinant technology



**Success from the first experiment**  
Confirmed specificity



**Ethical standards compliant**  
Animal-free production

Anti-MED12 antibody [BLR084G] (ab275962)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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