abcam

Product datasheet

Anti-IDOL antibody ab74562

★★★★☆ **4 Abreviews**   **10 References**   **2 Images**

Overview

Product name	Anti-IDOL antibody
Description	Rabbit polyclonal to IDOL
Host species	Rabbit
Tested applications	**Suitable for:** ELISA, WB, IHC-P
Species reactivity	**Reacts with:** Mouse, Human
Immunogen	Synthetic peptide corresponding to Human IDOL (internal sequence). Immunogen Range:161-210 Database link: **Q8WY64**

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: 7.40 Preservative: 0.02% Sodium azide Constituents: 0.87% Sodium chloride, 50% Glycerol, PBS Without Mg2+ and Ca2+
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee   Our **Abpromise guarantee** covers the use of ab74562 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
ELISA		Use at an assay dependent concentration.
WB	★★★☆☆ (3)	1/500 - 1/1000. Predicted molecular weight: 50 kDa.
IHC-P	★★★★☆ (1)	1/50 - 1/100.

Target

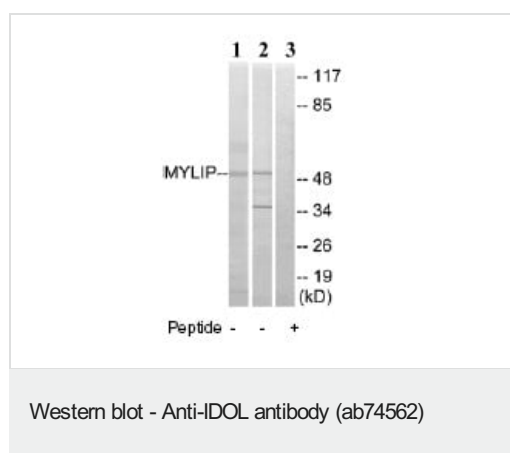|	
Function	E3 ubiquitin-protein ligase that mediates ubiquitination and subsequent proteasomal degradation of myosin regulatory light chain (MRLC), LDLR, VLDLR and LRP8. Proteasomal degradation of MRLC leads to inhibit neurite outgrowth in presence of NGF by counteracting the stabilization of MRLC by saposin-like protein (CNPY2/MSAP) and reducing CNPY2-stimulated neurite outgrowth. Acts as a sterol-dependent inhibitor of cellular cholesterol uptake by mediating ubiquitination and subsequent degradation of LDLR.
Tissue specificity	Ubiquitously expressed.
Pathway	Protein modification; protein ubiquitination.
Sequence similarities	Contains 1 FERM domain. Contains 1 RING-type zinc finger.
Developmental stage	Expressed in fetal tissues and higher levels were detected in placenta and fetal lung.
Domain	The RING domain mediates ubiquitination and the neurite outgrowth inhibitory activity.
Post-translational modifications	Autoubiquitinated.
Cellular localization	Cytoplasm.

Images

Western blot - Anti-IDOL antibody (ab74562)

All lanes : Anti-IDOL antibody (ab74562) at 1/500 dilution

Lane 1 : extracts from HeLa cells

Lane 2 : extracts from Jurkat cells

Lane 3 : extracts from Jurkat cells with immunising peptide at 10 µg
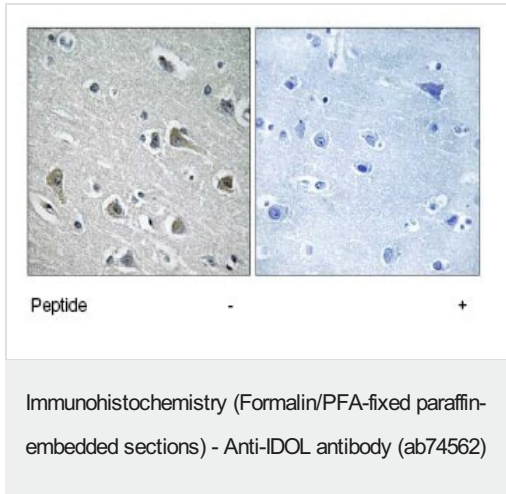
Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG (H+L) HRP at 1/10000 dilution

Predicted band size: 50 kDa

Observed band size: 50 kDa

Additional bands at: 35 kDa. We are unsure as to the identity of these extra bands.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-IDOL antibody (ab74562)

Immunohistochemistry analysis of IDOL in paraffin embedded human brain tissue using 1/50 ab74562.

Left image: untreated sample.

Right image: sample treated with immunising peptide.

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

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