


Product datasheet

Anti-RAI1 antibody ab86599

3 Images

Overview

Product name	Anti-RAI1 antibody
Description	Rabbit polyclonal to RAI1
Host species	Rabbit
Tested applications	Suitable for: IHC-P, WB, IP
Species reactivity	Reacts with: Human Predicted to work with: Chimpanzee, Gorilla, Orangutan 
Immunogen	Synthetic peptide corresponding to Human RAI1 aa 1-100. Database link: Q7Z5J4
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
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab86599 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
IHC-P		1/500 - 1/2000. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
WB		1/2000 - 1/10000. Predicted molecular weight: 203 kDa.
IP		Use at 10 µg/mg of lysate.

Target

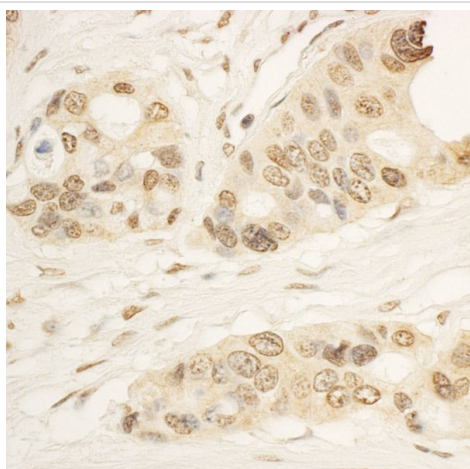
Relevance

RAI1 (retinoid-acid induced protein 1) may be involved in neuronal differentiation. RAI1 is highly similar to its mouse counterpart and is expressed at high levels mainly in neuronal tissues. RAI1 has a polymorphic polyglutamine tract in it's N-terminal domain. Expression of the mouse counterpart in neurons is induced by retinoic acid. The RAI1 gene is associated with both the severity of the phenotype and the response to medication in schizophrenic patients. Defects in RAI1 are a cause of Smith-Magenis syndrome (SMS). There are four named isoforms.

Cellular localization

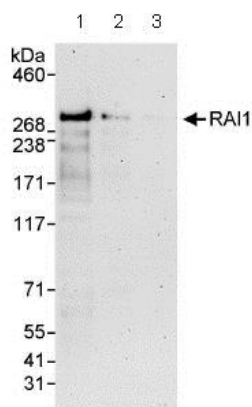
Cytoplasmic and Nuclear. In neurons it is localized to neurites.

Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human ovarian carcinoma tissue labelling RAI1 with ab86599 at 1/1000 (1µg/ml). Detection: DAB.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-RAI1 antibody (ab86599)



Western blot - Anti-RAI1 antibody (ab86599)

All lanes : Anti-RAI1 antibody (ab86599) 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

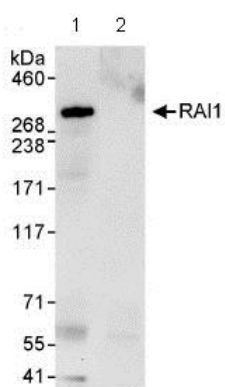
Lane 3 : Whole cell lysate from HeLa cells at 5 µg

Developed using the ECL technique.

Predicted band size: 203 kDa

Observed band size: 280 kDa

Exposure time: 3 minutes



Immunoprecipitation - Anti-RAI1 antibody (ab86599)

Western Blot detection of RAI1 in Immunoprecipitates of Whole cell lysate of HeLa cells (1 mg for IP, 20% of IP loaded) using ab86599 at 10 µg/mg lysate for IP and at 1 µg/ml for subsequent Western blot detection. Lane 2 represents control IgG IP.

Detection: Chemiluminescence with an exposure time of 30 seconds.

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

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