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KLHL1 Antibody

Catalog # ASC10165

Product Information

Application	WB, E, IHC-P
Primary Accession	Q9NR64
Other Accession	AAF81719, 8926179
Reactivity	Human, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	82680
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	KLHL1 antibody can be used for the detection of KLHL1 by Western blot at 2 - 4 g/mL. Antibody can also be used for immunohistochemistry starting at 10 g/mL.

Additional Information

Gene ID	57626
Other Names	KLHL1 Antibody: MRP2, KIAA1490, Kelch-like protein 1, kelch-like 1 (Drosophila)
Target/Specificity	KLHL1;
Reconstitution & Storage	KLHL1 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Precautions	KLHL1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	KLHL1
Synonyms	KIAA1490
Function	May play a role in organizing the actin cytoskeleton of the brain cells.
Cellular Location	Cytoplasm, cytoskeleton.
Tissue Location	Highly expressed in brain.

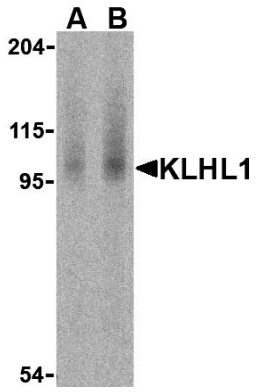
Background

KLHL1 Antibody: The mammalian Kelch-like 1 (KLHL1) was initially discovered as a homolog to the Drosophila Kelch gene that is highly expressed in several brain tissues. The predicted protein domain structure of KLHL1 is characteristic of a number of proteins that bind actin, form dimers, and often act as actin-organizing proteins. Based on the presence of anti-sense RNA that spans the transcription and translation start sites as well as the first splice site of KLHL1 in brain tissue of individuals suffering from the neurodegenerative disorder spinocerebellar ataxia type 8 (SCA8), it has been suggested that KLHL1 is involved this disease and that regulation of KLHL1 protein may be affected by antisense RNA expression.

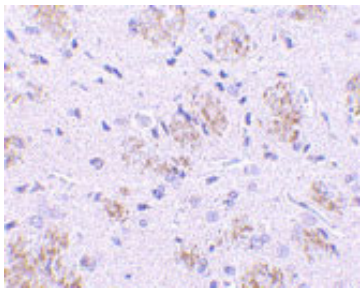
References

Nemes JP, Benzo KA, and Koob MD. The SCA8 transcript is an antisense RNA to a brain-specific transcript encoding a novel actin-binding protein (KLHL1). Human Mol. Gen. 2000; 9:1543-51.
Adams J, Kelso R, and Cooley L. The kelch repeat superfamily of proteins: propellers of cell function. Trends Cell Biol. 2000; 10:17-24.
Robinson DN and Cooley L. Drosophila kelch is an oligomeric ring canal actin organizer. J. Cell Biol. 1997; 138:799-810.

Images



Western blot analysis of KLHL1 in human brain cell lysate with KLHL1 antibody at (A) 2 and (B) 4 µg /ml.



Immunohistochemistry of KLHL1 in rat brain tissue with KLHL1 antibody at 10 µg/mL.

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