antibodies

Datasheet for ABIN5647986 anti-ALDH7A1 antibody (AA 333-369)

2 Images



Overview

Quantity:	100 µg
Target:	ALDH7A1
Binding Specificity:	AA 333-369
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ALDH7A1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	Amino acids 333-369 (ARRLFIHESIHDEVVNRLKKAYAQIRVGNPWDPNVLY) from the human
	protein were used as the immunogen for the ALDH7A1 antibody.
lsotype:	lgG
Purification:	Antigen affinity purified

Target Details

Target:	ALDH7A1
Alternative Name:	ALDH7A1 (ALDH7A1 Products)
Background:	Aldehyde dehydrogenase 7 family, member A1, also known as ALDH7A1 or antiquitin, is an enzyme that in humans is encoded by the ALDH7A1 gene. The protein encoded by this gene is
	a member of subfamily 7 in the aldehyde dehydrogenase gene family. These enzymes are

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	thought to play a major role in the detoxification of aldehydes generated by alcohol metabolism
	andlipid peroxidation. This particular member has homology to a previously described protein
	from the green garden pea, the 26g pea turgor protein. It is also involved in lysine catabolism
	that is known to occur in the mitochondrial matrix. Recent reports show that this protein is
	found both in the cytosol and the mitochondria, and the two forms likely arise from the use of
	alternative translation initiation sites. An additional variant encoding a different isoform has
	also been found for this gene. Mutations in this gene are associated with pyridoxine-dependent
	epilepsy. Several related pseudogenes have also been identified.
UniProt:	P49419
Pathways:	Sensory Perception of Sound
Application Details	
Application Details Application Notes:	Western blot: 0.5-1 µg/mL,IHC (FFPE): 1-2 µg/mL
Application Details Application Notes: Restrictions:	Western blot: 0.5-1 µg/mL,IHC (FFPE): 1-2 µg/mL For Research Use only
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Application Details Application Notes: Restrictions: Handling Buffer:	Western blot: 0.5-1 µg/mL,IHC (FFPE): 1-2 µg/mL For Research Use only 0.5 mg/mL if reconstituted with 0.2 mL sterile DI water
Application Details Application Notes: Restrictions: Handling Buffer: Storage:	Western blot: 0.5-1 µg/mL,IHC (FFPE): 1-2 µg/mL For Research Use only 0.5 mg/mL if reconstituted with 0.2 mL sterile DI water -20 °C
Application Details Application Notes: Restrictions: Handling Buffer: Storage: Storage Comment:	Western blot: 0.5-1 µg/mL,IHC (FFPE): 1-2 µg/mL For Research Use only 0.5 mg/mL if reconstituted with 0.2 mL sterile DI water -20 °C After reconstitution, the ALDH7A1 antibody can be stored for up to one month at 4°C. For long-

Images



Immunohistochemistry

Image 1. IHC testing of FFPE rat brain with ALDH7A1 antibody at 1ug/ml. HIER: steam sections in pH6 citrate buffer for 20 min.

Images



Western Blotting

Image 2. Western blot testing of 1) rat liver, 2) mouse HEPA and 3) human HeLa lysate with ALDH7A1 antibody at 0.5ug/ml. Predicted molecular weight ~58 kDa.

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