

Product Datasheet

FACL4 Antibody NB300-861

Unit Size: 0.1 mg

Store at -20C. Avoid freeze-thaw cycles.

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NB300-861**FACL4 Antibody****Product Information**

Unit Size	0.1 mg
Concentration	0.5 mg/ml
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	Tris saline (20 mM Tris pH 7.3, 150 mM NaCl), 0.5% BSA

Product Description

Host	Goat
Gene ID	2182
Gene Symbol	ACSL4
Species	Human
Specificity/Sensitivity	This antibody is expected to recognise isoform 1 (NP_004449.1) and isoform 2 (NP_075266.1).
Immunogen	Peptide with sequence C-HYLKDIERMYGGK corresponding to C-Terminus according to NP_075266.1.

Product Application Details

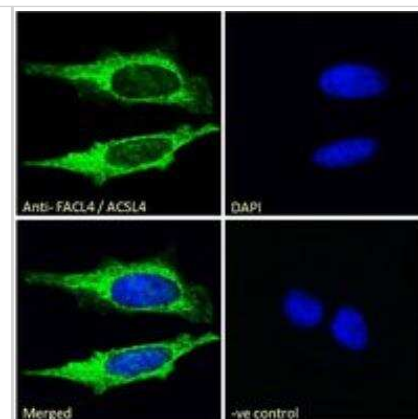
Applications	Western Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Peptide ELISA
Recommended Dilutions	Western Blot 0.1 - 0.3 ug/mL, Flow Cytometry 10 ug/mL, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 10 ug/mL, Immunohistochemistry-Paraffin 3.75 ug/mL, Peptide ELISA Detection limit 1:128000
Application Notes	WB: Approx. 80 kDa band observed in HepG2 lysates (calculated MW of 79.2 kDa band according to NP_075266.1).

Images

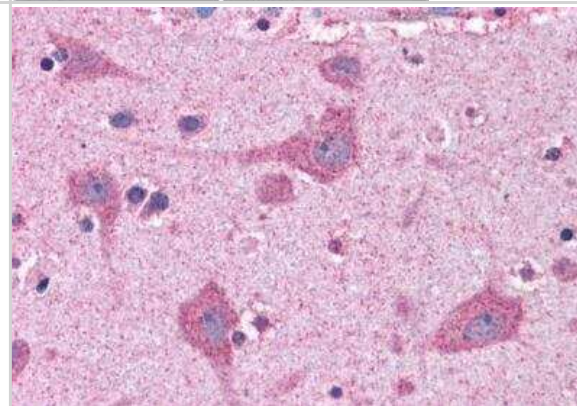
Western Blot: FACL4 Antibody [NB300-861] - Staining of HepG2 cell lysate (35 ug protein in RIPA buffer). Antibody at 0.1 ug/mL. Detected by chemiluminescence.



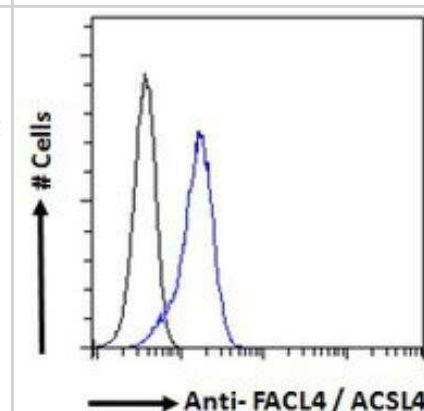
Immunocytochemistry/Immunofluorescence: FACL4 Antibody [NB300-861] - Immunofluorescence analysis of paraformaldehyde fixed HeLa cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10 ug/mL) followed by Alexa Fluor 488 secondary antibody (2 ug/mL), showing Golgi and Endoplasmic reticulum staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10 ug/mL) followed by Alexa Fluor 488 secondary antibody (2 ug/mL).



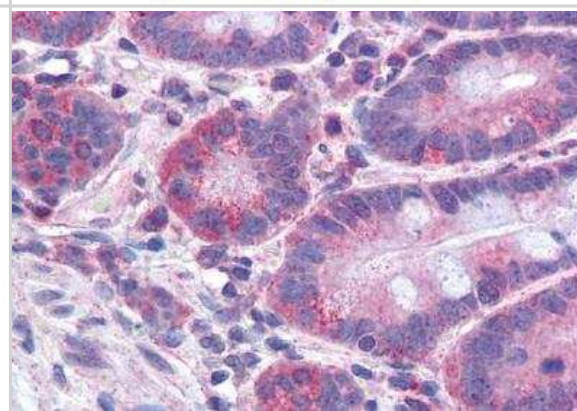
Immunohistochemistry-Paraffin: FACL4 Antibody [NB300-861] - Staining of paraffin embedded Human Cortex. Antibody at 3.75 ug/mL. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.



Flow Cytometry: FACL4 Antibody [NB300-861] - Flow cytometric analysis of paraformaldehyde fixed HeLa cells (blue line), permeabilized with 0.5% Triton. Primary incubation 1hr (10 ug/mL) followed by Alexa Fluor 488 secondary antibody (1 ug/mL). IgG control: Unimmunized goat IgG (black line) followed by Alexa Fluor 488 secondary antibody.



Immunohistochemistry-Paraffin: FACL4 Antibody [NB300-861] - Staining of paraffin embedded Human Small Intestine. Antibody at 3.75 ug/mL. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.



Publications

Cheng L, Zhu X, Liu Y et al. ACSL4 contributes to sevoflurane-induced ferroptotic neuronal death in SH-SY5Y cells via the 5' AMP-activated protein kinase/mammalian target of rapamycin pathway *Annals of Translational Medicine* 2021-09-01 [PMID: 34734006] (Western Blot, Block/Neutralize)

Piccini M, Vitelli F, Bruttini M et al. FACL4, a new gene encoding long-chain acyl-CoA synthetase 4, is deleted in a family with Alport syndrome, elliptocytosis, and mental retardation. *Genomics* 1998-02-01 [PMID: 9480748]





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Products Related to NB300-861

NBL1-07264	FACL4 Overexpression Lysate
HAF017	Rabbit anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
HAF109	Donkey anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
NB410-28088-1mg	Goat IgG Isotype Control

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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