10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

KLHL24 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP5238c

Product Information

Application	WB, IHC-P, E
Primary Accession	Q6TFL4
Other Accession	Q56A24, Q8BRG6
Reactivity	Human, Rat, Mouse
Predicted	Mouse, Rat, Bovine, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB26664
Calculated MW	68361
Antigen Region	182-211

Additional Information

Gene ID	54800
Other Names	Kelch-like protein 24, Kainate receptor-interacting protein for GluR6, KRIP6, Protein DRE1, KLHL24, DRE1
Target/Specificity	This KLHL24 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 182-211 amino acids from the Central region of human KLHL24.
Dilution	WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	KLHL24 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	KLHL24
Synonyms	DRE1

Function	Necessary to maintain the balance between intermediate filament stability and degradation, a process that is essential for skin integrity (PubMed:27889062). As part of the BCR(KLHL24) E3 ubiquitin ligase complex, mediates ubiquitination of KRT14 and controls its levels during keratinocytes differentiation (PubMed:27798626). Specifically reduces kainate receptor-mediated currents in hippocampal neurons, most probably by modulating channel properties (By similarity). Has a crucial role in cardiac development and function (PubMed:30715372).
Cellular Location	Perikaryon. Cell projection, axon {ECO:0000250|UniProtKB:Q56A24}. Cytoplasm {ECO:0000250|UniProtKB:Q56A24, ECO:0000269|PubMed:27889062}. Cell junction, desmosome. Cell junction, adherens junction
Tissue Location	Expressed in the skin (PubMed:27798626, PubMed:27889062). Found in keratinocytes, dermal fibroblasts, and melanocytes (PubMed:27889062). Basal-layer keratinocytes have lower KLHL24 expression than suprabasal keratinocytes (PubMed:27798626) Expressed in the brain, spinal cord, liver, testis, heart and at higher levels in the skeletal muscle (PubMed:30715372)

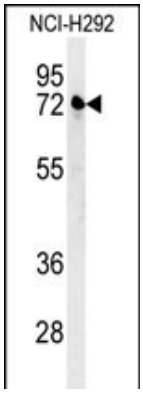
Background

KLHL24 is specifically reduces kainate receptor-mediated currents in hippocampal neurons, most probably by modulating channel properties.

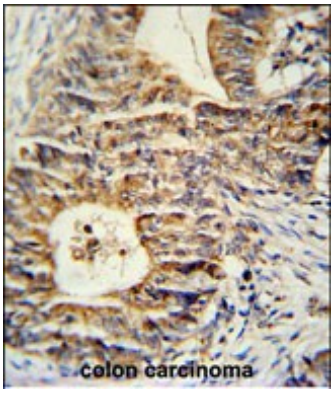
References

Laezza, F., et al. Neuropharmacology 55(7):1131-1139(2008)
Laezza, F., et al. Mol. Cell. Neurosci. 34(4):539-550(2007)

Images



KLHL24 Antibody (Center) (Cat. #AP5238c) western blot analysis in NCI-H292 cell line lysates (35ug/lane). This demonstrates the KLHL24 antibody detected the KLHL24 protein (arrow).



KLHL24 Antibody (Center) (Cat. #AP5238c) immunohistochemistry analysis in formalin fixed and paraffin embedded human colon carcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the KLHL24 Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.