

Anti-Myosin 14 Antibody

Catalog # AP53357

Product Information

Application	WB, IHC, IF/IC
Primary Accession	Q7Z406
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	227871

Additional Information

Gene ID	79784
Other Names	KIAA2034; Myosin-14; Myosin heavy chain 14; Myosin heavy chain, non-muscle IIC; Non-muscle myosin heavy chain IIC; NMHC II-C
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human Myosin 14. The exact sequence is proprietary.
Dilution	WB~~ 1:1000 IHC~~1:100~500 IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

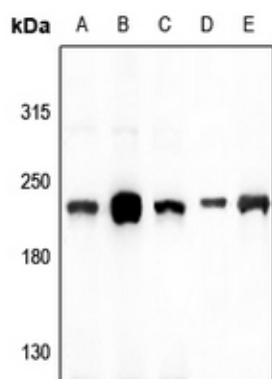
Protein Information

Name	MYH14
Synonyms	KIAA2034
Function	Cellular myosin that appears to play a role in cytokinesis, cell shape, and specialized functions such as secretion and capping.
Tissue Location	High levels of expression are found in brain (highest in corpus callosum), heart, kidney, liver, lung, small intestine, colon and skeletal muscle. Expression is low in organs composed mainly of smooth muscle, such as aorta, uterus and urinary bladder. No detectable expression is found in thymus, spleen, placenta and lymphocytes.

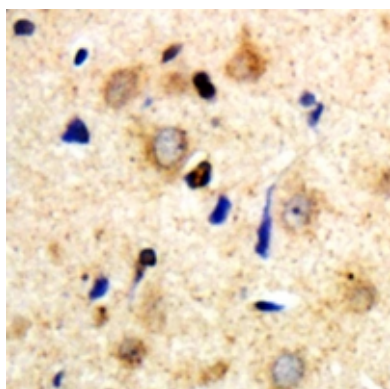
References

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 Grimwood J.,et al.Nature 428:529-535(2004).
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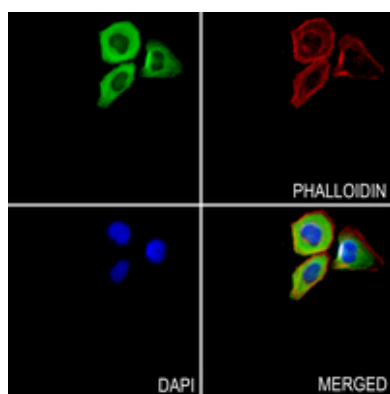
Images



Western blot analysis of Myosin 14 expression in H1792 (A), HEK293T (B), HepG2 (C), mouse liver (D), rat liver (E) whole cell lysates. (Predicted band size: 227 kD; Observed band size: 228 kD)



Immunohistochemical analysis of Myosin 14 staining in human brain formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of Myosin 14 staining in MCF7 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).

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