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FN3K Antibody (N-term)(Ascites)

Mouse Monoclonal Antibody (Mab)
Catalog # AM2193a

Product Information

Application	WB, E
Primary Accession	Q9H479
Reactivity	Human
Predicted	Mouse, Rat, Bovine, Canine, Rabbit
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Clone Names	788CT24.5.1
Calculated MW	35171

Additional Information

Gene ID	64122
Other Names	Fructosamine-3-kinase, 271-, FN3K
Target/Specificity	Purified His-tagged FN3K protein was used to produced this monoclonal antibody.
Dilution	WB~~1:1000~8000 E~~Use at an assay dependent concentration.
Format	Mouse monoclonal antibody supplied in crude ascites with 0.09% (W/V) sodium azide.
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	FN3K Antibody (N-term)(Ascites) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	FN3K {ECO:0000303|PubMed:14633848, ECO:0000312|HGNC:HGNC:24822}
Function	Fructosamine-3-kinase involved in protein deglycation by mediating phosphorylation of fructoselysine residues on glycated proteins, to generate fructoselysine-3 phosphate (PubMed:11016445, PubMed:11522682, PubMed:11975663). Fructoselysine-3 phosphate adducts are unstable and decompose under physiological conditions (PubMed:11522682, PubMed:11975663). Involved in intracellular deglycation in erythrocytes (PubMed:11975663). Involved in the response to oxidative stress by mediating

	deglycation of NFE2L2/NRF2, glycation impairing NFE2L2/NRF2 function (By similarity). Also able to phosphorylate psicosamines and ribulosamines (PubMed:14633848).
Tissue Location	Widely expressed (PubMed:11522682). Expressed in erythrocytes (PubMed:11016445).

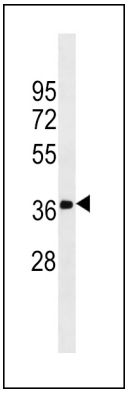
Background

May initiate a process leading to the deglycation of fructoselysine and of glycated proteins. May play a role in the phosphorylation of 1-deoxy-1-morpholinofructose (DMF), fructoselysine, fructoseglycine, fructose and glycated lysozyme.

References

Delpierre G., et al. Diabetes 49:1627-1634(2000).
Yu L.-R., et al. J. Proteome Res. 6:4150-4162(2007).
Burkard T.R., et al. BMC Syst. Biol. 5:17-17(2011).

Images



FN3K Antibody (N-term) (Cat. #AM2193a) western blot analysis in K562 cell line lysates (35µg/lane).This demonstrates the FN3K antibody detected the FN3K protein (arrow).

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