

FN3K Antibody (N-term)(Ascites)

Mouse Monoclonal Antibody (Mab)

Catalog # AM2193a

Product Information

Application	WB, E
Primary Accession	Q9H479
Reactivity	Human
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).

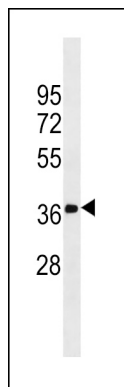
Background

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'.