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FN3K Antibody (N-term)(Ascites)
Mouse Monoclonal Antibody (Mab)
Catalog # AM2193a

Specification

FN3K Antibody (N-term)(Ascites) - Product Information

Application	**WB,E**
Primary Accession	Q9H479
Reactivity	**Human**
Host	**Mouse**
Clonality	**Monoclonal**
Isotype	**IgG1**
Calculated MW	**35171**

FN3K Antibody (N-term)(Ascites) - 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.

FN3K Antibody (N-term)(Ascites) - 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).

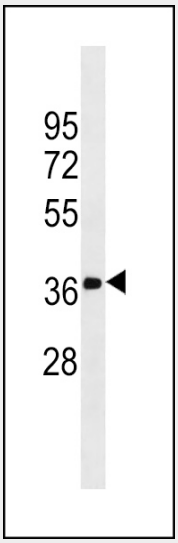
Tissue Location
Widely expressed (PubMed:11522682). Expressed in erythrocytes (PubMed:11016445).

FN3K Antibody (N-term)(Ascites) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

FN3K Antibody (N-term)(Ascites) - 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).

FN3K Antibody (N-term)(Ascites) - 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.

FN3K Antibody (N-term)(Ascites) - 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).