

FN3KRP Antibody (N-Term)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AW5569

Specification

FN3KRP Antibody (N-Term) - Product Information

Application	WB, IHC,E
Primary Accession	O9HA64
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	H=34;M=34 KDa
Isotype	Rabbit IgG
Antigen Source	HUMAN

FN3KRP Antibody (N-Term) - Additional Information

Gene ID 79672

Antigen Region
24-58

Other Names

Ketosamine-3-kinase, 271-, Fructosamine-3-kinase-related protein, FN3K-RP, FN3K-related protein, FN3KRP

Dilution

WB~~1:2000
IHC~~1:25

Target/Specificity

This FN3KRP antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 24-58 amino acids from human FN3KRP.

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

FN3KRP Antibody (N-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

FN3KRP Antibody (N-Term) - Protein Information

Name FN3KRP {ECO:0000303|PubMed:15137908, ECO:0000312|HGNC:HGNC:25700}

Function

Ketosamine-3-kinase involved in protein deglycation by mediating phosphorylation of

ribuloselysine and psicoselysine on glycated proteins, to generate ribuloselysine-3 phosphate and psicoselysine-3 phosphate, respectively (PubMed:14633848, PubMed:15137908). Ribuloselysine-3 phosphate and psicoselysine-3 phosphate adducts are unstable and decompose under physiological conditions (PubMed:14633848, PubMed:15137908). Not able to phosphorylate fructoselysine (PubMed:14633848).

Tissue Location

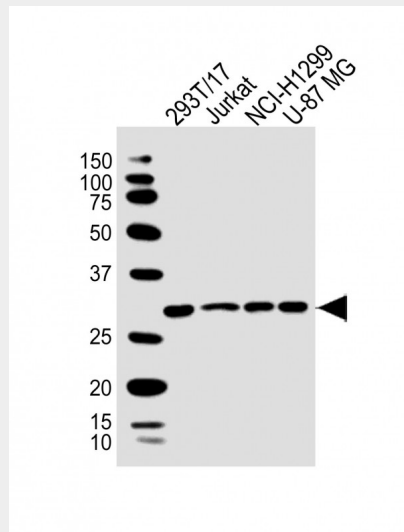
Widely expressed; except in skeletal muscle where it is expressed at very low level (PubMed:15331600). Expressed in erythrocytes (PubMed:15137908).

FN3KRP Antibody (N-Term) - Protocols

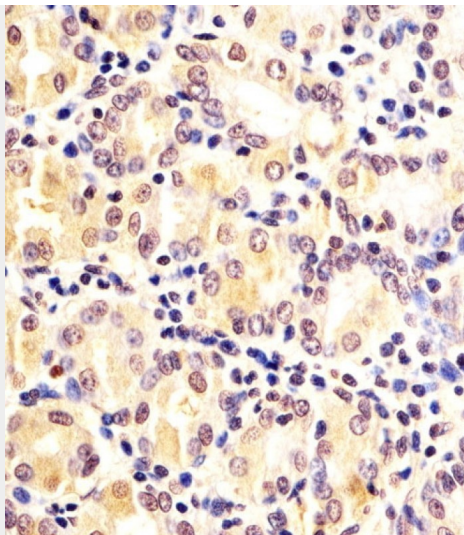
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

FN3KRP Antibody (N-Term) - Images



All lanes : Anti-FN3KRP Antibody (N-Term) at 1:2000 dilution Lane 1: 293T/17 whole cell lysate Lane 2: Jurkat whole cell lysate Lane 3: NCI-H1299 whole cell lysate Lane 4: U-87 MG whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 34 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



AW5569 staining FN3KRP in human Stomach sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 3% BSA for 0.5 hour at room temperature; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody (1/25) for 1 hour at 37°C. A undiluted biotinylated goat polyvalent antibody was used as the secondary antibody.

FN3KRP Antibody (N-Term) - Background

Phosphorylates psicosamines and ribulosamines, but not fructosamines, on the third carbon of the sugar moiety. Protein-bound psicosamine 3-phosphates and ribulosamine 3-phosphates are unstable and decompose under physiological conditions. Thus phosphorylation leads to deglycation.

FN3KRP Antibody (N-Term) - References

Collard F., et al. *Diabetes* 52:2888-2895(2003).
Wiemann S., et al. *Genome Res.* 11:422-435(2001).
Ota T., et al. *Nat. Genet.* 36:40-45(2004).
Collard F., et al. *Biochem. J.* 382:137-143(2004).
Oppermann F.S., et al. *Mol. Cell. Proteomics* 8:1751-1764(2009).