10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

FN3KRP Antibody (N-Term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP21419a

Specification

FN3KRP Antibody (N-Term) - Product Information

Application	**WB, IHC-P,E**
Primary Accession	Q9HA64
Reactivity	**Human, Mouse**
Host	**Rabbit**
Clonality	**polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**34412**

FN3KRP Antibody (N-Term) - Additional Information

Gene ID 79672

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

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.

Dilution
WB~~1:1000-1:2000
IHC-P~~1:25
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

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).

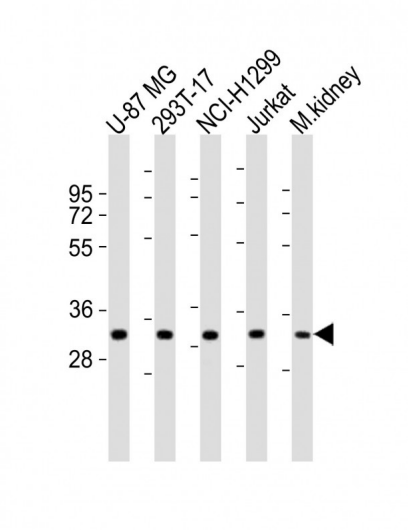
Tissue Location
Widely expressed; except in skeletal muscle where it is expressed at very low level (PubMed:15331600). Expressed in erythrocytes (PubMed:15137908).

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 Cytomety
- Cell Culture

FN3KRP Antibody (N-Term) - Images



All lanes : Anti-FN3KRP Antibody (N-Term) at 1:1000-1:2000 dilution Lane 1: U-87 MG whole cell lysates Lane 2: 293T-17 whole cell lysates Lane 3: NCI-H1299 whole cell lysates Lane 4: Jurkat whole cell lysates Lane 5: mouse kidney lysates 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.

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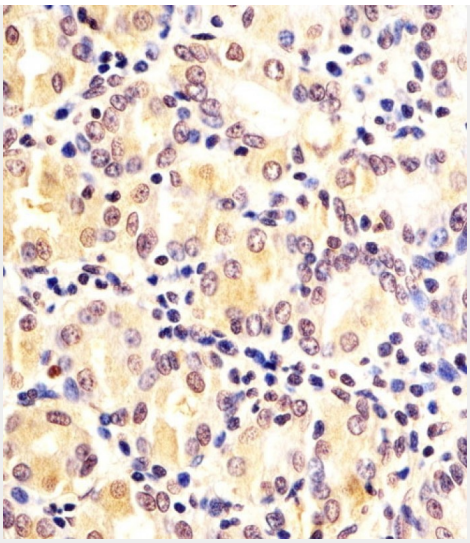

AP21419a staining FN3KRP in human Stomach sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 3% BSA for 0. 5 hour at room temperature; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody (1/25) for 1 hours 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).