

**FN3KRP Antibody (N-Term)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP21419a**

**Specification**

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**FN3KRP Antibody (N-Term) - Product Information**

Application	<b>WB, IHC-P,E</b>
Primary Accession	<a href="#">O9HA64</a>
Reactivity	<b>Human, Mouse</b>
Host	<b>Rabbit</b>
Clonality	<b>polyclonal</b>
Isotype	<b>Rabbit IgG</b>
Calculated MW	<b>34412</b>

**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

**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

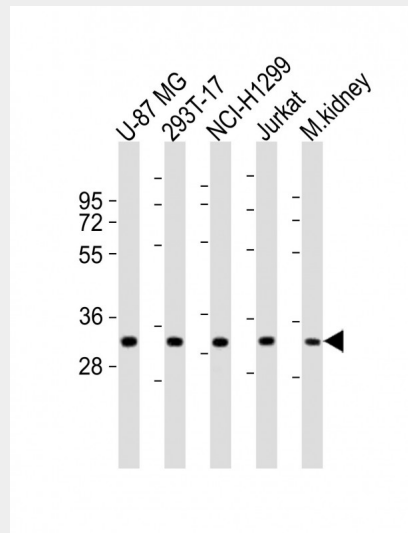
Widely expressed; except in skeletal muscle where it is expressed at very low level (PubMed:[15331600](#)). Expressed in erythrocytes (PubMed:[15137908](#)).

#### FN3KRP Antibody (N-Term) - Protocols

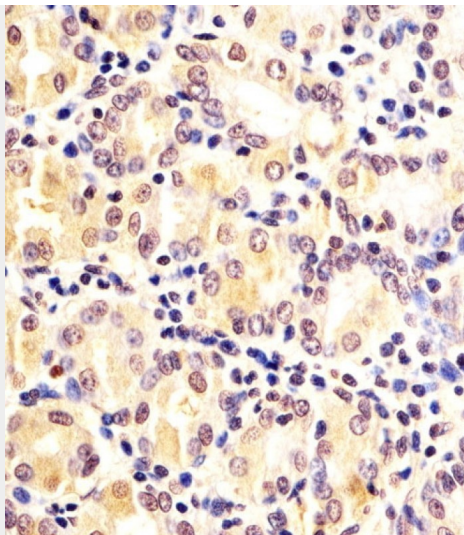
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [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% NFDN/TBST.



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 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).