

# FN3KRP Antibody (N-Term)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AW5569

## Product Information

---

Application	WB, IHC
Primary Accession	<a href="#">Q9HA64</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	34412
Isotype	Rabbit IgG
Antigen Source	HUMAN

## 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~~1:100~500
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.
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.

## 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](#)).

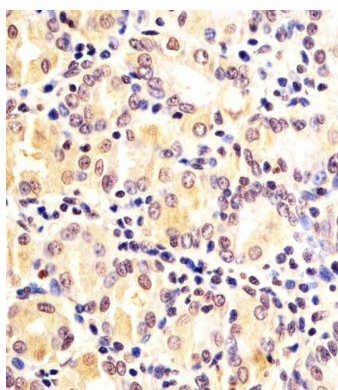
## Background

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.

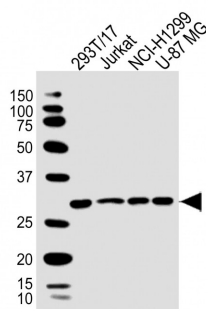
## References

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).

## Images



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.



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.