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Rabbit Anti-FN3K antibody

SL13189R

Product Name:	FN3K
Chinese Name:	果糖胺-3激酶抗体
Alias:	EC 2.7.1.-; Ketosamine-3-kinase; FLJ12171; FN3K-related protein; FN3K-RP; FN3KL; FN3KRP; Fn3krp fructosamine-3-kinase-related protein; FN3X; Fructosamine-3-kinase-related protein; Ketosamine-3-kinase; KT3K_HUMAN; MGC40640; RGD1304570; RP23-293H17.3.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500(Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	35kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human FN3K:201-309/309
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	Amines, including those present on proteins, spontaneously react with glucose to make fructosamines in a reaction termed glycation. Fructosamine 3-kinase (FN3K), a 309-amino acid enzyme initially identified in erythrocytes, catalyzes the ATP-dependent phosphorylation of the third carbon on both D- and L-fructosamines, leading to their

destabilization and eventually, their removal from the protein. FN3K is a monomer that is ubiquitously expressed in mammalian tissue and phosphorylates both low molecular mass and protein-bound fructosamines which are formed as a result of glycation of glucose with primary amines. FN3K protects proteins from the harmful effects of nonenzymatic glycation, and may also be involved in peptide repair and cell metabolism. FN3KRP (fructosamine-3-kinase-related protein) is a 309 amino acid protein that is expressed in erythrocytes, bone marrow, spleen, brain and kidney and belongs to the fructosamine kinase family. FN3KRP functions to phosphorylate psicoamines and ribulosamines on the third carbon of their sugar moiety, thereby leading to the deglycation of the target amines.

Function:
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.

Subunit:
Monomer (Probable).

Tissue Specificity:
Expressed in erythrocytes.

Similarity:
Belongs to the fructosamine kinase family.

SWISS:
Q9H479

Gene ID:
64122

Database links:

Entrez Gene: 64122Human

Entrez Gene: 63828Mouse

Omim: 608425Human

SwissProt: Q9H479Human

SwissProt: Q9ER35Mouse

Unigene: 151135Human

Unigene: 266448Mouse

	Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.