



Rabbit Anti-DDOST antibody

SL14213R

Product Name:	DDOST
Chinese Name:	晚期糖基化终产物受体1抗体
Alias:	Advanced glycation endproduct receptor 1; AGE R1; AGER1; CDG1R; DDOST 48 kDa subunit; Dolichyl diphosphooligosaccharide protein glycosyltransferase subunit (non catalytic); Dolichyl-diphosphooligosaccharide--protein glycosyltransferase 48 kDa subunit; Dolichyl-diphosphooligosaccharide-protein glycosyltransferase; EC 2.4.1.119; KIAA0115; MGC2191; OK/SW-cl.45; OKSWcl45; Oligosaccharyl transferase 48 kDa subunit; Oligosaccharyltransferase 48 kDa subunit; Oligosaccharyltransferase subunit 48; OST; OST48; OST48_HUMAN; RP23-25C1.4; WBP1; wu:fa11d01; zgc:66068; zgc:77478.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Dog,Cow,Horse,Zebrafish,Sheep,
Applications:	ELISA=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:	43kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human DDOST/AGER1:361-456/456
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

This gene encodes a component of the oligosaccharyltransferase complex which catalyzes the transfer of high-mannose oligosaccharides to asparagine residues on nascent polypeptides in the lumen of the rough endoplasmic reticulum. The protein complex co-purifies with ribosomes. The product of this gene is also implicated in the processing of advanced glycation endproducts (AGEs), which form from non-enzymatic reactions between sugars and proteins or lipids and are associated with aging and hyperglycemia. [provided by RefSeq, Jul 2008]

Function:

DDOST (Dolichyl-diphosphooligosaccharide-protein glycosyltransferase) is a component of the oligosaccharyltransferase complex. This complex catalyzes the transfer of high-mannose oligosaccharides to asparagine residues on nascent polypeptides in the lumen of the rough endoplasmic reticulum and co-purifies with ribosomes. DDOST is also implicated in the processing of advanced glycation endproducts (AGEs), which form from non-enzymatic reactions between sugars and proteins or lipids and are associated with aging and hyperglycemia.

Subunit:

Component of the oligosaccharyltransferase (OST) complex. OST seems to exist in different forms which contain at least RPN1, RPN2, OST48, DAD1, OSTC, KRTCAP2 and either STT3A or STT3B. OST can form stable complexes with the Sec61 complex or with both the Sec61 and TRAP complexes even after release from the ribosome.

Subcellular Location:

Endoplasmic reticulum membrane; Single-pass type I membrane protein. Database links.

DISEASE:

Congenital disorder of glycosylation 1R (CDG1R) [MIM:614507]: A multisystem disorder caused by a defect in glycoprotein biosynthesis and characterized by underglycosylated serum glycoproteins. Congenital disorders of glycosylation result in a wide variety of clinical features, such as defects in the nervous system development, psychomotor retardation, dysmorphic features, hypotonia, coagulation disorders, and immunodeficiency. The broad spectrum of features reflects the critical role of N-glycoproteins during embryonic development, differentiation, and maintenance of cell functions. Note=The disease is caused by mutations affecting the gene represented in this entry.

Similarity:

Belongs to the DDOST 48 kDa subunit family.

SWISS:

P39656

Gene ID:

1650

Product Detail:

Database links:

[Entrez Gene: 1650](#) Human

[Entrez Gene: 425542](#) Chicken

[Entrez Gene: 510682](#) Cow

[Entrez Gene: 404012](#) Dog

[Entrez Gene: 13200](#) Mouse

[Entrez Gene: 313648](#) Rat

[Entrez Gene: 444283](#) Xenopus laevis

[Entrez Gene: 100145597](#) Xenopus tropicalis

[Entrez Gene: 406408](#) Zebrafish

[Omim: 602202](#) Human

[SwissProt: P48440](#) Chicken

[SwissProt: A6QPY0](#) Cow

[SwissProt: Q05052](#) Dog

[SwissProt: P39656](#) Human

[SwissProt: O54734](#) Mouse

[SwissProt: Q641Y0](#) Rat

[SwissProt: Q6GNR9](#) Xenopus laevis

[SwissProt: B1H3C9](#) Xenopus tropicalis

[SwissProt: Q6NYS8](#) Zebrafish

[Unigene: 523145](#) Human

Important Note:

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

