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

KD-Validated Anti-DDOST Mouse Monoclonal Antibody

Mouse monoclonal antibody
Catalog # AGI2037

Specification

KD-Validated Anti-DDOST Mouse Monoclonal Antibody - Product Information

Application	**WB, FC**
Primary Accession	P39656
Reactivity	**Rat, Human, Mouse**
Clonality	**Monoclonal**
Isotype	**Mouse IgG1**
Calculated MW	**Predicted, 51 kDa, observed, 49 kDa KDa**
Gene Name	**DDOST**
Aliases	**DDOST; Dolichyl-Diphosphooligosaccharide--Protein Glycosyltransferase Non-Catalytic Subunit; OST48; KIAA0115; WBP1; OST; Dolichyl-Diphosphooligosaccharide--Protein Glycosyltransferase 48 KDa Subunit; Advanced Glycation End-Product Receptor 1; Oligosaccharyl Transferase 48 KDa Subunit; Oligosaccharyltransferase Subunit 48; Dolichyl-Diphosphooligosaccharide--Protein Glycosyltransferase Subunit (Non-Catalytic); Dolichyl-Diphosphooligosaccharide-Protein Glycosyltransferase; Dolichyl-Diphosphooligosaccharide-Protein Glycotransferase; Advanced Glycation Endproduct Receptor 1; Oligosaccharyltransferase 48 KDa Subunit; DDOST 48 KDa Subunit; EC 2.4.1.119; OKSWcl45; AGER1; CDG1R; GATD6**
Immunogen	**Recombinant protein of human DDOST**

KD-Validated Anti-DDOST Mouse Monoclonal Antibody - Additional Information

Gene ID	**1650**

Other Names
Dolichyl-diphosphooligosaccharide--protein glycosyltransferase 48 kDa subunit, DDOST 48 kDa subunit, Oligosaccharyl transferase 48 kDa subunit, DDOST (HGNC:2728), KIAA0115, OST48

KD-Validated Anti-DDOST Mouse Monoclonal Antibody - Protein Information

Name DDOST (HGNC:2728)

Synonyms KIAA0115, OST48

Function
Subunit of the oligosaccharyl transferase (OST) complex that catalyzes the initial transfer of a defined glycan (Glc(3)Man(9)GlcNAc(2) in eukaryotes) from the lipid carrier dolichol-pyrophosphate to an asparagine residue within an Asn-X-Ser/Thr consensus motif in nascent polypeptide chains, the first step in protein N-glycosylation (PubMed:31831667). N-glycosylation occurs cotranslationally and the complex associates with the Sec61 complex at the channel-forming translocon complex that mediates protein translocation across the endoplasmic reticulum (ER). All subunits are required for a maximal enzyme activity (By similarity). Required for the assembly of both SST3A- and SS3B-containing OST complexes (PubMed:22467853).

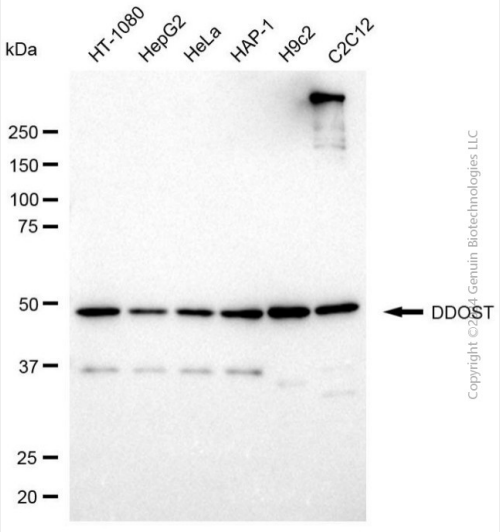
Cellular Location
Endoplasmic reticulum membrane {ECO:0000250|UniProtKB:Q29381}; Single-pass type I membrane protein {ECO:0000250|UniProtKB:Q29381}

KD-Validated Anti-DDOST Mouse Monoclonal Antibody - Protocols

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

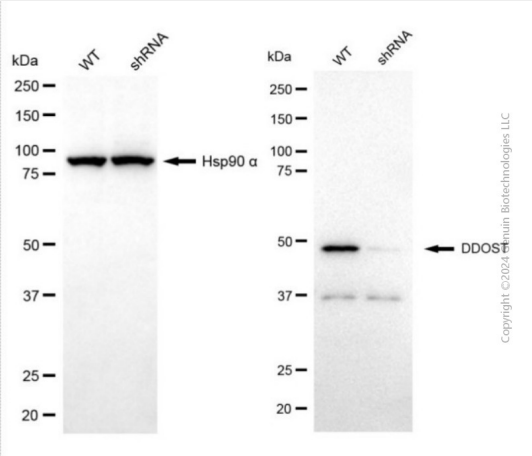
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

KD-Validated Anti-DDOST Mouse Monoclonal Antibody - Images

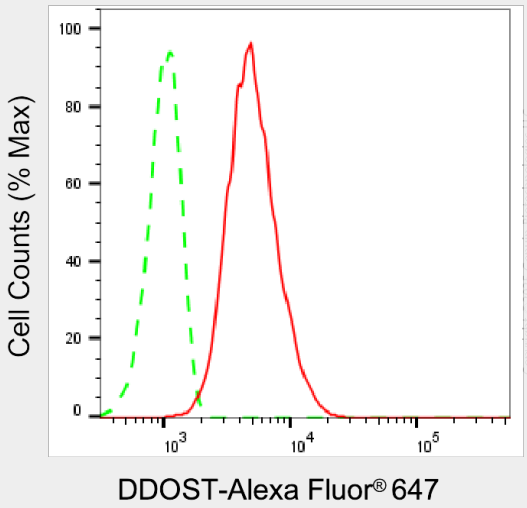


Western blotting analysis using anti-DDOST antibody (Cat#AGI2037). Total cell lysates (20 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-DDOST antibody (Cat#AGI2037, 1:2,000) and HRP-conjugated goat anti-mouse secondary antibody respectively.

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



Western blotting analysis using anti-DDOST antibody (Cat#AGI2037). DDOST expression in wild-type (WT) and DDOST shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-DDOST antibody (Cat#AGI2037, 1:1,000) and HRP-conjugated goat anti-mouse secondary antibody respectively.



Flow cytometric analysis of DDOST expression in C2C12 cells using anti-DDOST antibody (Cat#AGI2037, 1:1,000). Green, isotype control; red, DDOST.