10320 Camino Santa Fe, Suite G
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# KD-Validated Anti-DDOST Mouse Monoclonal Antibody

**Mouse monoclonal antibody**
**Catalog # AGI2038**

## 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 (<a href="http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=2728" target="_blank">HGNC:2728</a>), 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:<a href="http://www.uniprot.org/citations/31831667" target="_blank">31831667</a>). 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:<a href="http://www.uniprot.org/citations/22467853" target="_blank">22467853</a>).

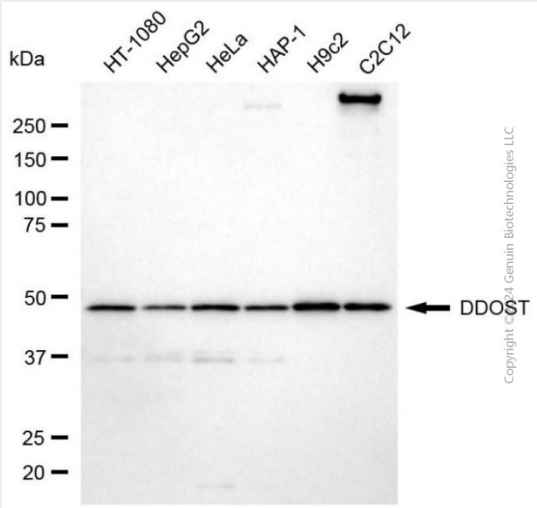
**Cellular Location**
Endoplasmic reticulum membrane {ECO:0000250|UniProtKB:Q29381}; Single-pass type I membrane protein {ECO:0000250|UniProtKB:Q29381}

## 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#AGI2038). 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#AGI2038, 1:1,000) and HRP-conjugated goat anti-mouse secondary antibody respectively.

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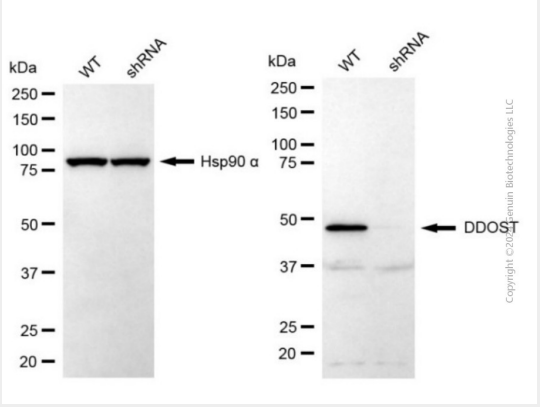
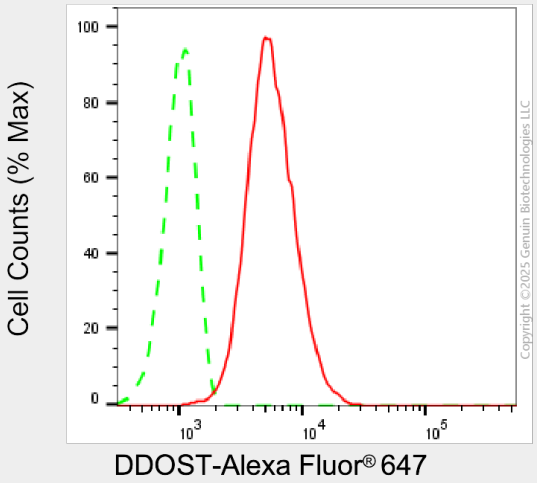



Western blotting analysis using anti-DDOST antibody (Cat#AGI2038). DDOST expression in wild-type (WT) and DDOST shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-DDOST antibody (Cat#AGI2038, 1:1,000) and HRP-conjugated goat anti-mouse secondary antibody respectively.




Flow cytometric analysis of DDOST expression in C2C12 cells using anti-DDOST antibody (Cat#AGI2038, 1:1,000). Green, isotype control; red, DDOST.