

## Product datasheet for **TA306631**

### POFUT1 Rabbit Polyclonal Antibody

#### Product data:

|                       |   |
|-----------------------|---|
| Product Type:         | Primary Antibodies  |
| Applications:         | IHC, WB   |
| Recommended Dilution: | WB: 0.5 - 1 ug/mL, ICC: 2.5 ug/mL   |
| Reactivity:           | Human, Mouse  |
| Host:                 | Rabbit  |
| Isotype:              | IgG   |
| Clonality:            | Polyclonal  |
| Immunogen:            | POFUT1 antibody was raised against a 16 amino acid peptide from near the amino terminus of human POFUT1.                                |
| Formulation:          | PBS containing 0.02% sodium azide.  |
| Concentration:        | 1 mg/ml   |
| Purification:         | Affinity chromatography purified via peptide column   |
| Conjugation:          | Unconjugated  |
| Storage:              | Store at -20°C as received.   |
| Stability:            | Stable for 12 months from date of receipt.  |
| Gene Name:            | protein O-fucosyltransferase 1  |
| Database Link:        | <a href="#">NP_056167</a><br><a href="#">Entrez Gene 140484 Mouse</a> <a href="#">Entrez Gene 23509 Human</a><br><a href="#">Q9H488</a> |

**Background:** POFUT1, an endoplasmic reticulum-residing member of the glycosyltransferase O-Fuc family, adds O-fucose through an O-glycosidic linkage to conserved serine or threonines in epidermal growth factor-like repeats of several cell surface and secreted proteins. Unlike its homolog POFUT2, POFUT1 can also catalyze the transfer of fucose to thrombospondin type 1 repeats. Many of the substrates of POFUT1 are involved in ligand-induced receptor signaling. One such protein is Notch; mouse ES cells lacking POFUT have normal levels of Notch receptors at the cell surface, but these receptors do not bind Notch ligands or exhibit Notch signaling. At least two isoforms of POFUT1 are known to exist. This antibody is predicted to not cross-react with POFUT2.

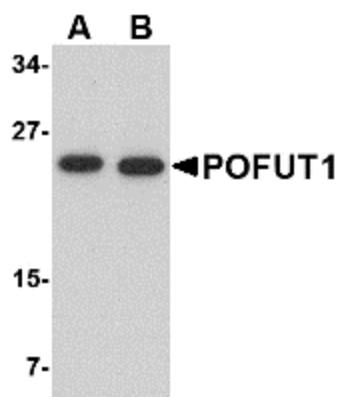


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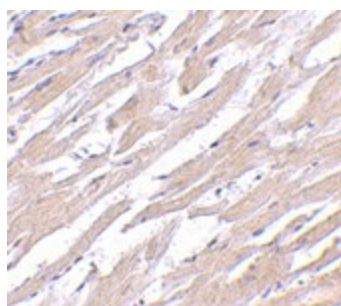
**Synonyms:** DDD2; FUT12; O-Fuc-T; O-FucT-1; O-FUT; OFUCT1

**Protein Families:** Druggable Genome, Transcription Factors

**Product images:**



Western blot analysis of POFUT1 in human heart tissue lysate with POFUT1 antibody at (A) 0.5 and (B) 1 ug/ml.



Immunohistochemistry of POFUT1 in human heart tissue with POFUT antibody at 2.5 ug/ml.