

Datasheet for ABIN500521

anti-POFUT1 antibody (N-Term)**2** Images**1** Publication[Go to Product page](#)

Overview

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|----------------------|--|
| Quantity: | 0.1 mg |
| Target: | POFUT1 |
| Binding Specificity: | N-Term |
| Reactivity: | Human, Mouse |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This POFUT1 antibody is un-conjugated |
| Application: | Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Enzyme Immunoassay (EIA) |

Product Details

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| Immunogen: | POFUT1 antibody was raised against a 16 amino acid peptide from near the amino terminus of human POFUT1. |
| Isotype: | IgG |
| Specificity: | This antibody detects POFUT1. It is predicted to not cross-react with POFUT2. |
| Cross-Reactivity (Details): | Species reactivity (tested): Human, mouse |
| Purification: | Peptide affinity chromatography |

Target Details

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|---------|--------|
| Target: | POFUT1 |
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Target Details

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| Alternative Name: | POFUT1 (POFUT1 Products) |
| Background: | <p>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. Synonyms: FUT12, GDP-fucose protein O-fucosyltransferase 1, KIAA0180, O-FucT-1, Peptide-O-fucosyltransferase 1</p> |
| Gene ID: | 23509 |
| NCBI Accession: | NP_056167 |
| UniProt: | Q9H488 |
| Pathways: | Notch Signaling , SARS-CoV-2 Protein Interactome |

Application Details

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| Application Notes: | <p>ELISA. Western blot: .5 - 1 µg/mL. Immunohistochemistry on paraffin sections.</p> <p>Other applications not tested.</p> <p>Optimal dilutions are dependent on conditions and should be determined by the user.</p> |
| Restrictions: | For Research Use only |

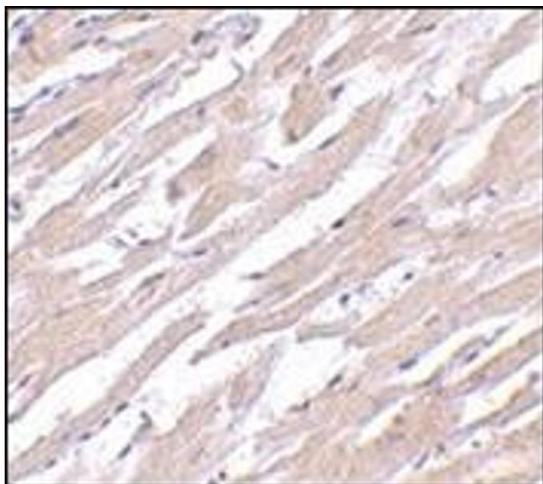
Handling

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|--------------------|--|
| Buffer: | PBS containing 0.02 % sodium azide |
| Preservative: | Sodium azide |
| Precaution of Use: | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| Handling Advice: | Avoid repeated freezing and thawing. |
| Storage: | 4 °C/-20 °C |
| Storage Comment: | Store at 2 - 8 °C for up to one month or (in aliquots) at -20 °C for longer. |

Publications

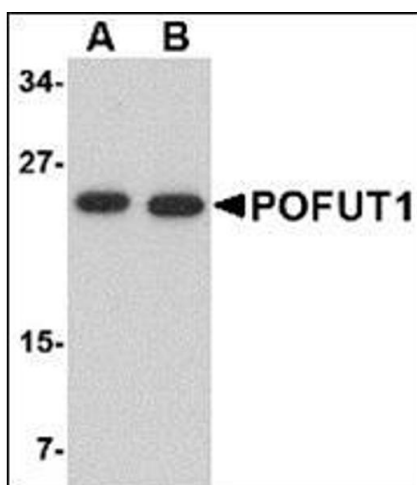
Product cited in: Takeuchi, Wong, Schneider, Freeze, Takeuchi, Berardinelli, Ito, Lee, Nelson, Haltiwanger: "Variant in human POFUT1 reduces enzymatic activity and likely causes a recessive microcephaly, global developmental delay with cardiac and vascular features." in: **Glycobiology**, Vol. 28, Issue 5, pp. 276-283, (2018) ([PubMed](#)).

Images



Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Immunohistochemistry of POFUT1 in human heart tissue with this product at 2.5 µg/ml.



Western Blotting

Image 2. Western blot analysis of POFUT1 in human heart tissue lysate with this product at (A) 0.5 and (B) 1 µg/ml.