10320 Camino Santa Fe, Suite G
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FUT10 Polyclonal Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP56174

Specification

FUT10 Polyclonal Antibody - Product Information

Application	**WB, IHC-P, IHC-F, IF, ICC, E**
Primary Accession	Q6P4F1
Reactivity	**Rat, Chimpanzee, Dog**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**56094**

FUT10 Polyclonal Antibody - Additional Information

Gene ID 84750

Other Names
Alpha-(1, 3)-fucosyltransferase 10, 2.4.1.-, Fucosyltransferase X, Fuc-TX, FucT-X, Galactoside 3-L-fucosyltransferase 10, Fucosyltransferase 10, FUT10

Dilution
WB~~1:1000<br \>IHC-P~~N/A<br \>IHC-F~~N/A<br \>IF~~1:50~200<br \>ICC~~N/A<br \>E~~N/A

Format
0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

Storage
Store at -20 ℃ for one year. Avoid repeated freeze/thaw cycles. 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 ℃.

FUT10 Polyclonal Antibody - Protein Information

Name FUT10 {ECO:0000303|PubMed:19088067, ECO:0000312|HGNC:HGNC:19234}

Function
Protein O-fucosyltransferase that specifically catalyzes O- fucosylation of serine or threonine residues in EMI domains of target proteins, such as MMRN1, MMRN2 and EMID1 (PubMed:39775168). Attaches fucose through an O-glycosidic linkage (PubMed:39775168). O-fucosylation of EMI domain-containing proteins may be required for facilitating protein folding and secretion (PubMed:39775168). May also show alpha-(1,3)-fucosyltransferase activity toward

the innermost N- acetyl glucosamine (GlcNAc) residue in biantennary N-glycan acceptors (PubMed:19088067). However, this was tested with a library of synthetic substrates and this activity is unsure in vivo (PubMed:19088067). May be involved in biosynthesis of Lewis X-carrying biantennary N-glycans that regulate neuron stem cell self-renewal during brain development (By similarity).

Cellular Location
Endoplasmic reticulum membrane; Single-pass type II membrane protein [Isoform 4]: Golgi apparatus. Lysosome

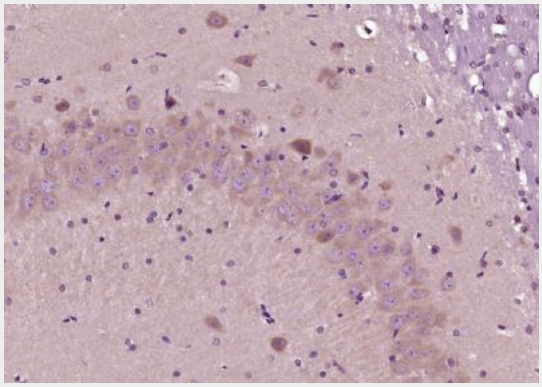
Tissue Location
Expressed in lung, digestive tract, gall bladder, placenta, kidney, uterus and brain. Not detected in spleen, heart, muscle, liver and pancreas.

FUT10 Polyclonal 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

FUT10 Polyclonal Antibody - Images



Paraformaldehyde-fixed, paraffin embedded (Rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (FUT10) Polyclonal Antibody, Unconjugated (bs-16197R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

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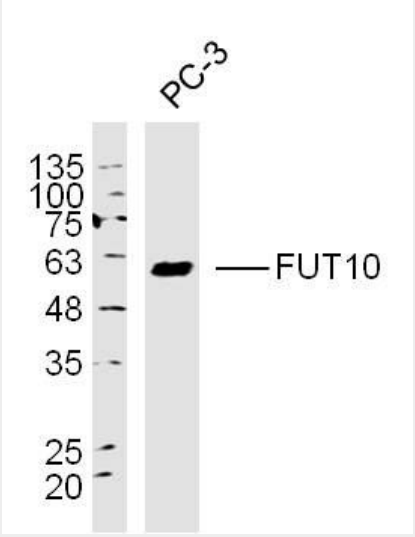
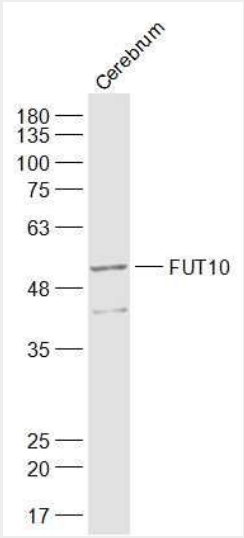


Sample: PC-3 (human)cell Lysate at 40 ug
Primary: Anti- FUT10 (bs-16197R) at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 56 kD
Observed band size: 56 kD



Sample:
Cerebrum (Mouse) Lysate at 40 ug
Primary: Anti-FUT10 (bs-16197R) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 56 kD
Observed band size: 56 kD