

# Anti-FUT4 Antibody [B4-B11]

EM1708-64



<b>Product Type:</b>	Mouse monoclonal IgG2b, primary antibodies
<b>Species reactivity:</b>	Human
<b>Applications:</b>	WB
<b>Molecular Wt:</b>	59 kDa
<b>Clone number:</b>	B4-B11

**Description:** Fucosyltransferases (FucTs) catalyze the covalent association of fucose to different positional linkages on sugar acceptor molecules. The carbohydrate moieties that are generated are covalently attached to cell surfaces and are necessary to ensure a surface contour that satisfies a variety of physiological roles. CD15, also known as Lewis X or LeX, is a carbohydrate antigen that is generated by FucT-IV (alpha 1,3-fucosyltransferase IV). Commonly found on the surface of leukocytes and some tumor cells, CD15 is a trisaccharide that is synthesized when FucT-IV transfers an  $\alpha$ -fucose residue onto the  $\beta$ -GlcNAc moiety of cellular N-acetyllactosamines. CD15 functions as an adhesion molecule capable of calcium-mediated homotypic binding. Cells with high surface expression of CD15, therefore, exhibit strong self-aggregation (based on CD15-CD15 interaction) in the presence of calcium. Additionally, CD15 is thought to be a ligand for Selectins (proteins involved in mediating leukocyte-specific cellular interactions), further supporting its role as a cell-adhesion protein.

**Immunogen:** Recombinant protein

**Positive control:** Human FUT4 recombinant protein, FUT4-hIgGfc transfected HEK293 cell lysate, Jurkat cell lysate,

**Subcellular location:** Golgi Apparatus, membrane-bound form in trans cisternae of Golgi.

**Database links:** SwissProt: P22083 Human

**Recommended Dilutions:**  
**WB** 1:500-1:2,000

**Storage Buffer:** Purified antibody in PBS with 0.05% sodium azide.

**Storage Instruction:** 4°C; -20°C for long term storage.

**Purity:** Protein A affinity purified.

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Orders:0086-571-88062880

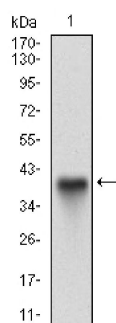
Technical:0086-571-89986345

Service mail:support@huabio.cn

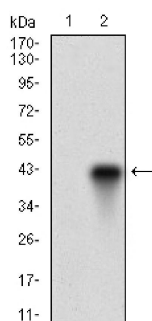
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Applications:WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation

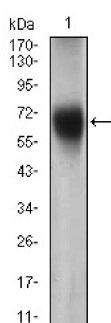
## Images



**Fig1:** Western blot analysis of FUT4 on human FUT4 recombinant protein using anti-FUT4 antibody at 1/1,000 dilution.



**Fig2:** Western blot analysis of FUT4 on HEK293 (1) and FUT4-hlgGfc transfected HEK293 (2) cell lysate using anti-FUT4 antibody at 1/1,000 dilution.



**Fig3:** Western blot analysis of FUT4 on Jurkat cell lysate using anti-FUT4 antibody at 1/1,000 dilution.

**Note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

## Background References

1. Sabry M et al. Leukemic priming of resting NK cells is killer Ig-like receptor independent but requires CD15-mediated CD2 ligation and natural cytotoxicity receptors. *J Immunol* 187(12):6227-34 (2011).
2. de Antonellis P et al. MiR-34a targeting of Notch ligand delta-like 1 impairs CD15+/CD133+ tumor-propagating cells and supports neural differentiation in medulloblastoma. *PLoS One* 6(9):e24584 (2011).

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