Anti-GalNAc-T1 [UH3]

Catalogue number: 155104 Sub-type: Primary antibody

Images:

Contributor

Inventor:

Institute: University of Copenhagen

Images:

Tool details

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Name: Anti-GalNAc-T1 [UH3]

Alternate name: UH3, 4D8

Class: Monoclonal

Conjugate: Unconjugated

Description: GalNAc-T1 is one of many polypeptide GalNAc-transferases that attach GalNAc to proteins forming the GalNAc???•?1-O-Ser/Thr linkage for GalNAc-type O-glycosylation. The GalNActransferase isoforms have considerably overlapping functions as well as unique distinct functions. GalNAc-T1 and Ä?Ë???Â???Â?T2 are the main contributors to O-glycosylation of peptides in most cells and they have distinct functions. Murine knock out studies demonstrate that GalNAc-T1 plays important roles in B-cell differentiation. GalNAc-T1 has also been implicated in carcinogenesis. Oglycans are important biomarkers in cancer. The truncated O-glycans comprising Tn formed by the GalNAc transferases and T formed by further elongation by the core1 synthase (C1GalT1) are widely recognized as pancarcinoma antigens. They are masked by sialic acid or further elongation or branching in normal cells. Validation: 1. Positive reaction (IC/IF) in cells expressing GalNAc-T1 using close isoforms as negative controls e.g. GalNAc-T13. 2. Selective IP of active GalNAc-T1 from total cell extracts. 3. Distinct perinuclear staining in cell lines (ICC/IF) and tissues (IHC, IF) suggestive of Golgi localization. 4. loss of staining (IC/IF) following KO of GalNAc-T1

Purpose: Parental cell: Organism: Tissue: Model: Gender: Isotype: IgG1

Reactivity: Human

Selectivity:

Host: Mouse

Immunogen: Catalytically active secreted GalNAc-T1 produced in insect cells. Recombinant protein

containing aa. 41-559 (Uniprot isoform-1) **Immunogen UNIPROT ID:** Q10472

Sequence:

Growth properties: Production details:

Formulation:

Recommended controls:
Bacterial resistance:
Selectable markers:
Additional notes:

Target details

Target: GalNAc-T1/GALNT1

Target alternate names:

Target background: GalNAc-T1 is one of many polypeptide GalNAc-transferases that attach GalNAc to proteins forming the GalNAc1-O-Ser/Thr linkage for GalNAc-type O-glycosylation. The GalNAc-transferase isoforms have considerably overlapping functions as well as unique distinct functions. GalNAc-T1 and T2 are the main contributors to O-glycosylation of peptides in most cells and they have distinct functions. Murine knock out studies demonstrate that GalNAc-T1 plays important roles in B-cell differentiation. GalNAc-T1 has also been implicated in carcinogenesis. O-glycans are important biomarkers in cancer. The truncated O-glycans comprising Tn formed by the GalNAc transferases and T formed by further elongation by the core1 synthase (C1GalT1) are widely recognized as pancarcinoma antigens. They are masked by sialic acid or further elongation or branching in normal cells. Validation: 1. Positive reaction (IC/IF) in cells expressing GalNAc-T1 using close isoforms as negative controls e.g. GalNAc-T13. 2. Selective IP of active GalNAc-T1 from total cell extracts. 3. Distinct perinuclear staining in cell lines (ICC/IF) and tissues (IHC, IF) suggestive of Golgi localization. 4. loss of staining (IC/IF) following KO of GalNAc-T1

Molecular weight:

Ic50:

Applications

Application: ELISA; IHC; IF; IP

Application notes:

Handling

Format: Liquid

Concentration: 0.9-1.1 mg/ml

Passage number: Growth medium: Temperature: Atmosphere: Volume:

Storage medium:

Storage buffer: PBS with 0.02% azide **Storage conditions:** -15° C to -25° C **Shipping conditions:** Shipping at 4° C

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References

References: