For Research Use Only

FUT4 Polyclonal ANTIBODY

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Antibodies | ELISA kits | Proteins
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Catalog Number:19497-1-AP Featured Product 19 Publications

Basic Information

Catalog Number:
19497-1-AP

Size:
150UL , Concentration: 300 μg/ml by Bradford method using BSA as the standard;

Source:
Rabbit

Isotype:
IgG

GenBank Accession Number:
NM_002033

GeneID (NCBI):
2526

Full Name:
fucosyltransferase 4 (alpha (1,3) fucosyltransferase, myeloid-specific)

Calculated MW:
59 kDa

Observed MW:
59 kDa and 95-140 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:500-1:1000
IP 0.5-4.0 ug for IP and 1:500-1:1000 for WB
IHC 1:50-1:500

Applications

Tested Applications:
IHC, IP, WB, ELISA

Cited Applications:
IF, IHC, WB

Species Specificity:
human, mouse

Cited Species:
human, mouse

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : HeLa cells, HL-60 cells, Jurkat cells, HepG2 cells, NIH/3T3 cells

IP : HeLa cells,

IHC : human lung cancer tissue, human gliomas tissue, human skin cancer tissue

Background Information

FUT4, also named as ELFT and FCT3A, belongs to the glycosyltransferase 10 family. FUT4 may catalyze alpha-1,3 glycosidic linkages involved in the expression of Lewis X/SSEA-1 and VIM-2 antigens. The expression of CD15 (acts as a terminal glycotope in glycoproteins and glycolipids) is directed by FUT4 in promyelocytes and monocytes. FUT4 is an antigenic epitope defined as a Lewis X carbohydrate structure is expressed on murine embryonal carcinoma cells (EC), murine ES and iPS cells, and murine and human germ cells. It is widely used as a positive surface marker for mouse undifferentiated ES and iPS cells and a negative surface marker for human undifferentiated ES and iPS cells. Expression is down-regulated following differentiation of murine EC and ES cells, while the differentiation of human EC and ES cells is accompanied by an increase in FUT4 expression. FUT4 is associated with cell adhesion, migration and differentiation. 19497-1-AP antibody detects the native band around 59 kDa and glycosylated isoform proteins around 95-140 kDa in SDS-PAGE. (PMID: 28706275, 28914881, 11278338)

Notable Publications

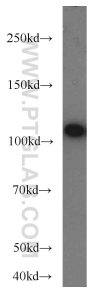
Author	Pubmed ID	Journal	Application
Faisal Aziz	26427350	Toxicol In Vitro	WB, IF
Qin Zheng	28914881	Cell Death Differ	WB,IF
Chang Liu	30357521	J Cancer Res Clin Oncol	IHC

Storage

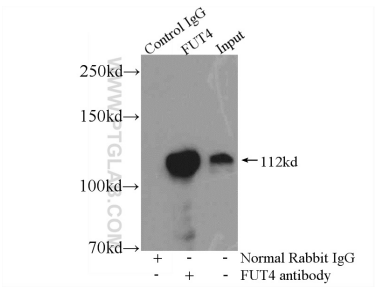
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

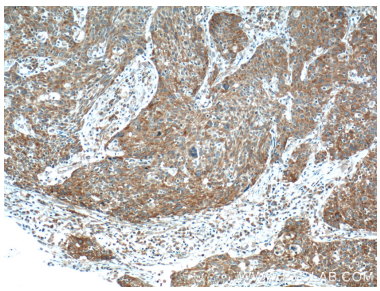
Selected Validation Data



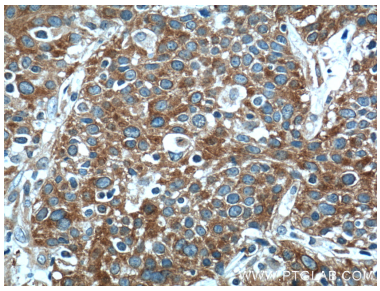
HeLa cells were subjected to SDS PAGE followed by western blot with 19497-1-AP (FUT4 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



IP Result of anti-FUT4 (IP:19497-1-AP, 4ug; Detection:19497-1-AP 1:500) with HeLa cells lysate 2480ug.



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 19497-1-AP (FUT4 Antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 19497-1-AP (FUT4 Antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).