For Research Use Only

FAT1 Polyclonal antibody

Catalog Number:30733-1-AP

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Basic Information

Catalog Number:
30733-1-AP

Size:
350 μg/ml

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG33957

GenBank Accession Number:

GeneID (NCBI):
2195

UNIPROT ID:
Q14517

Full Name:
FAT tumor suppressor homolog 1 (Drosophila)

Observed MW:
506-600 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:1000-1:5000
IHC 1:50-1:500

Applications

Tested Applications:
WB, IHC, ELISA

Species Specificity:
Human

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, Jurkat cells

IHC : human prostate hyperplasia tissue,

Background Information

FAT1, also known as hFat1, belongs to a member of the cadherin superfamily, has been proposed to play roles in cerebral development, glomerular slit formation, and also to act as a tumor suppressor, but its mechanisms of action have not been elucidated. It is expected to be located in cell membrane and nucleus, which is expressed in many epithelial and some endothelial and smooth muscle cells. The calculated molecular weight of FAT1 is 506 kDa and there is glycosylation modification of the protein. To examine functions of the transmembrane and cytoplasmic domains, they were expressed in HEK-293 and HeLa cells as chimeric proteins in fusion with EGFP and extracellular domains derived from E-cadherin. Proteins comprising the transmembrane domain localized to the membrane fraction (PMID: 15922730, 26373379).

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:
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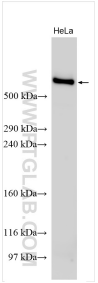
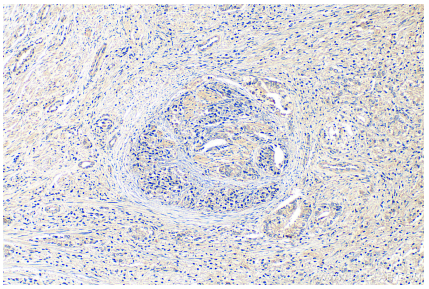
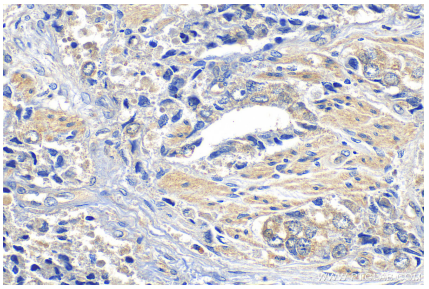
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 30733-1-AP (FAT1 antibody) at dilution of 1:2500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human prostate hyperplasia tissue slide using 30733-1-AP (FAT1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human prostate hyperplasia tissue slide using 30733-1-AP (FAT1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).