10320 Camino Santa Fe, Suite G
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FUK Antibody
Purified Mouse Monoclonal Antibody
Catalog # AO1557a

Specification

FUK Antibody - Product Information

Application	**WB, FC, E**
Primary Accession	Q8N0W3
Reactivity	**Human, Mouse, Rat, Monkey**
Host	**Mouse**
Clonality	**Monoclonal**
Isotype	**IgG1**
Calculated MW	**117kDa KDa**

Description
The protein encoded by this gene belongs to the GHMP (galacto-, homoserine, mevalonate and phosphomevalonate) kinase family and catalyzes the phosphorylation of L-fucose to form beta-L-fucose 1-phosphate. This enzyme catalyzes the first step in the utilization of free L-fucose in glycoprotein and glycolipid synthesis. L-fucose may be important in mediating a number of cell-cell interactions such as blood group antigen recognition, inflammation, and metastatis. While several transcript variants may exist for this gene, the full-length nature of only one has been described to date. (provided by RefSeq)

Immunogen
Purified recombinant fragment of human FUK expressed in E. Coli.

Formulation
Ascitic fluid containing 0.03% sodium azide.

FUK Antibody - Additional Information

Gene ID 197258

Other Names
L-fucose kinase, Fucokinase, 2.7.1.52, FUK

Dilution
WB~~1/500 - 1/2000
FC~~1/200 - 1/400
E~~1/10000

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
FUK Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

FUK Antibody - Protein Information

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Name FCSK (HGNC:29500)

Function
Takes part in the salvage pathway for reutilization of fucose from the degradation of oligosaccharides.

Tissue Location
Expressed in fibroblasts.

FUK 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

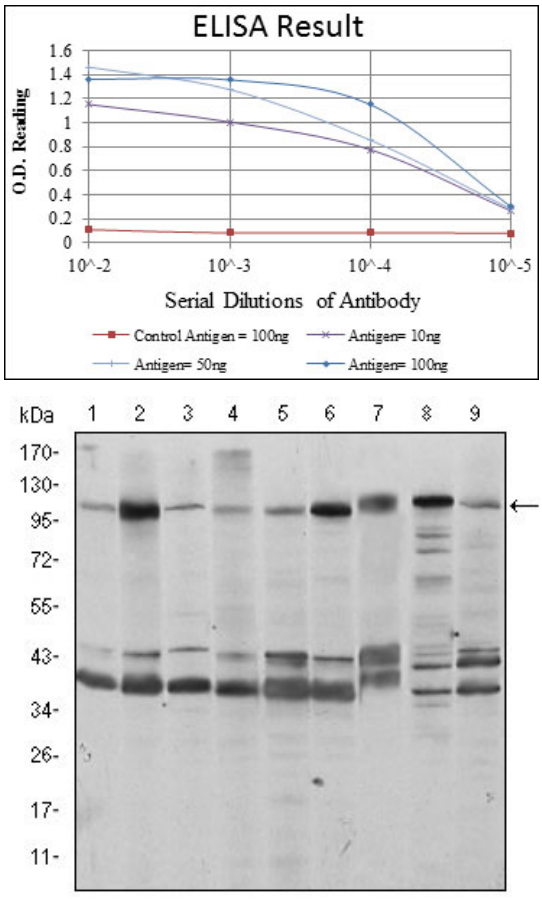

Figure 1: Western blot analysis using FUK mouse mAb against Hela (1), HepG2 (2), Jurkat (3), A431 (4), HEK293 (5), MCF-7 (6), PC-12 (7), Cos7 (8), and NIH/3T3 (9) cell lysate.

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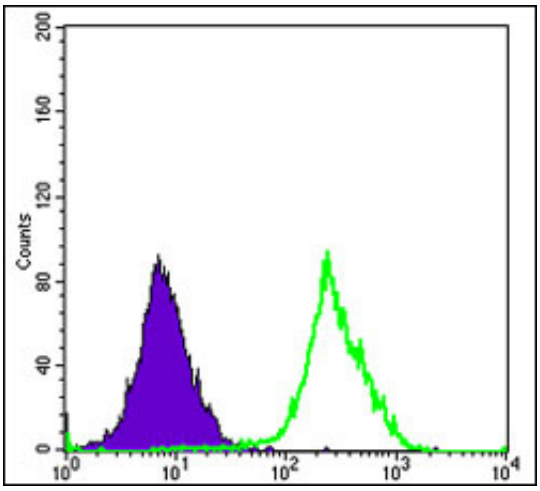

Figure 4: Flow cytometric analysis of Hela cells using FUK mouse mAb (green) and negative control (purple).

FUK Antibody - References

1. J Hum Ergol (Tokyo). 2009 Dec;38(2):81-8. 2. Ophthalmologica. 2009;223(4):233-8.