

Fucokinase Monoclonal Antibody

Catalog No :	YM0288
Reactivity :	Human;Mouse;Rat;Monkey
Applications :	WB;FCM;ELISA
Target :	Fucokinase
Fields :	>>Fructose and mannose metabolism;>>Amino sugar and nucleotide sugar metabolism;>>Metabolic pathways;>>Biosynthesis of nucleotide sugars
Gene Name :	FUK
Protein Name :	L-fucose kinase
Human Gene Id :	197258
Human Swiss Prot No :	Q8N0W3
Immunogen :	Purified recombinant fragment of human Fucokinase expressed in E. Coli.
Specificity :	Fucokinase Monoclonal Antibody detects endogenous levels of Fucokinase protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Monoclonal, Mouse
Dilution :	WB 1:500 - 1:2000. Flow cytometry: 1:200 - 1:400. ELISA: 1:10000. Not yet tested in other applications.
Purification :	Affinity purification
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Molecularweight :	118kD
Cell Pathway :	Fructose and mannose metabolism;Amino sugar and nucleotide sugar

metabolism;

P References :

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

Background :

fucokinase(FUK) Homo sapiens 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 metastasis. While several transcript variants may exist for this gene, the full-length nature of only one has been described to date. [provided by RefSeq, Jul 2008],

Function :

catalytic activity:ATP + L-fucose = ADP + beta-L-fucose 1-phosphate.,function:Takes part in the salvage pathway for reutilization of fucose from the degradation of oligosaccharides.,similarity:Belongs to the GHMP kinase family.,

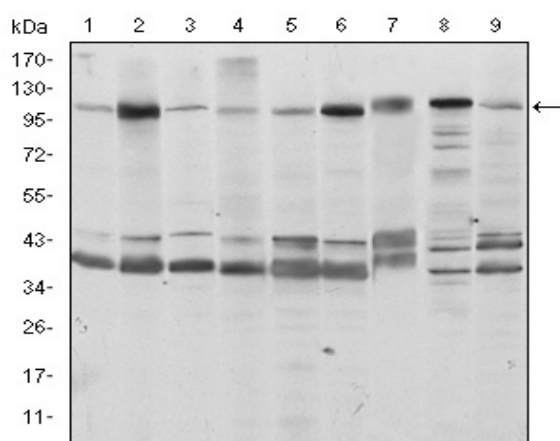
Subcellular Location :

cytoplasm,cytosol,

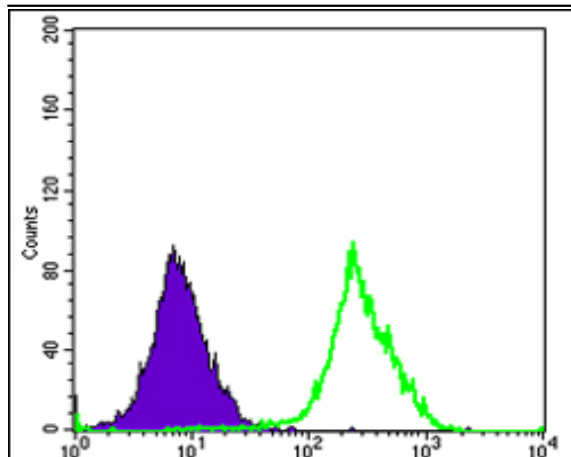
Expression :

Expressed in fibroblasts.

Products Images



Western Blot analysis using Fucokinase Monoclonal Antibody 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.



Flow cytometric analysis of Hela cells using Fucokinase Monoclonal Antibody (green) and negative control (purple).

