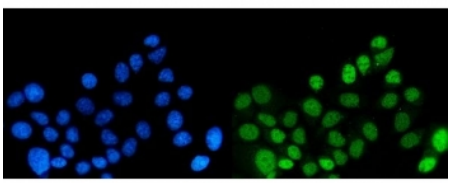
Dynein light chain 1 Antibody / DYNLL1 [clone 6G2H1] (RQ6753)

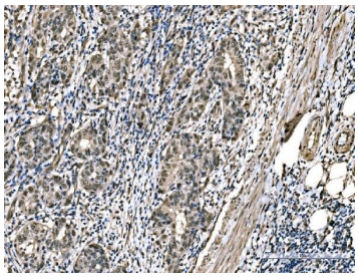
Catalog No.	Formulation	Size
RQ6753	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

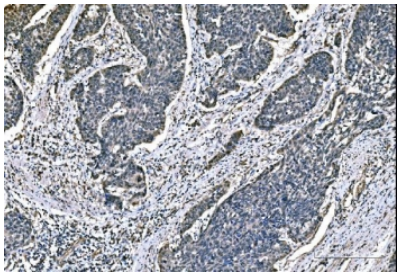
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2b
Clone Name	6G2H1
Purity	Affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	P63167
Localization	Cytoplasmic, nuclear
Applications	Western blot: 1-2ug/ml Immunohistochemistry (FFPE): 2-5ug/ml Immunofluorescence (FFPE): 5ug/ml Flow cytometry: 1-3ug/million cells
Limitations	This Dynein light chain 1 antibody is available for research use only.



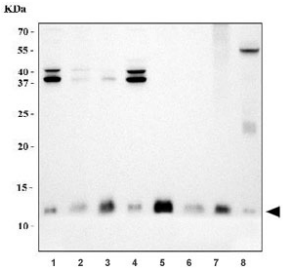
Immunofluorescent staining of FFPE human MCF7 cells with Dynein light chain 1 antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



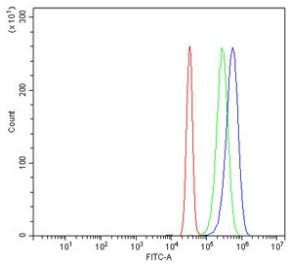
IHC staining of FFPE metaplasia of squamous cells of the renal pelvis tissue with Dynein light chain 1 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE human bladder epithelial carcinoma tissue with Dynein light chain 1 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Western blot testing of 1) human HepG2, 2) human PC-3, 3) human U-87 MG, 4) human MCF7, 5) rat testis, 6) rat brain, 7) mouse testis and 8) mouse brain tissue lysate with DYNLL1 antibody. Predicted molecular weight ~12 kDa.



Flow cytometry testing of human SiHa cells with Dynein light chain 1 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= Dynein light chain 1 antibody.

Description

Dynein light chain 1, cytoplasmic is a protein that in humans is encoded by the DYNLL1 gene. Cytoplasmic dyneins are large enzyme complexes with a molecular mass of about 1,200 kD. They contain two force-producing heads formed primarily from dynein heavy chains, and stalks linking the heads to a basal domain, which contains a varying number of accessory intermediate chains. The complex is involved in intracellular transport and motility. The protein described in this record is a light chain and exists as part of this complex but also physically interacts with and inhibits the activity of neuronal nitric oxide synthase. Binding of this protein destabilizes the neuronal nitric oxide synthase dimer, a conformation necessary for activity, and it may regulate numerous biologic processes through its effects on nitric oxide synthase activity. Alternate transcriptional splice variants have been characterized.

Application Notes

Optimal dilution of the Dynein light chain 1 antibody should be determined by the researcher.

Immunogen

Recombinant human protein (amino acids M1-G89) was used as the immunogen for the Dynein light chain 1 antibody.

Storage

After reconstitution, the Dynein light chain 1 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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