Data Sheet (Cat.No.TMAC-01200)

Anti-DYNLL1 Antibody (5G489)

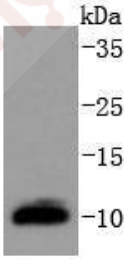
Product Details

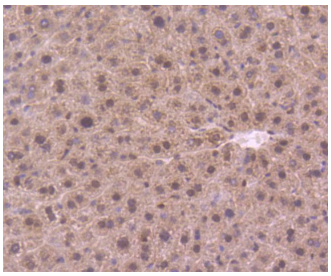
Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 10 kDa.
Clone:	5G489
Purification:	ProA affinity purified

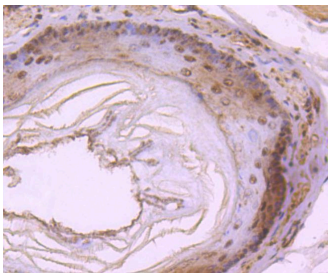
Applications

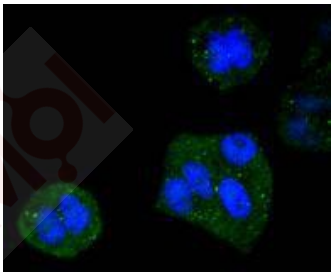
Verified Activity:

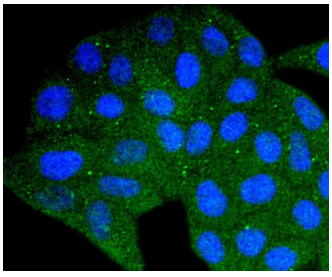
1. Western blot analysis of DYNLL1 on MCF-7 cells lysates using anti-DYNLL1 antibody at 1/1,000 dilution.
2. Immunohistochemical analysis of paraffin-embedded mouse liver tissue using anti-DYNLL1 antibody. Counter stained with hematoxylin.
3. Immunohistochemical analysis of paraffin-embedded rat esophagus tissue using anti-DYNLL1 antibody. Counter stained with hematoxylin.
4. ICC staining DYNLL1 in Hela cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
5. ICC staining DYNLL1 in HepG2 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
6. ICC staining DYNLL1 in 293T cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

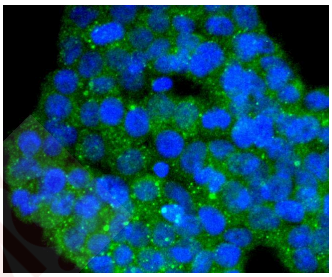












Application:	ICC/IF,IHC,IP,WB
Recommended	WB: 1:1000-2000; IHC: 1:50-200; ICC/IF: 1:50-200

Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	Recombinant Protein
Uniprot ID:	P63167
Synonyms:	DLC8;Dynein Light Chain 1 Cytoplasmic;DYNLL1;DNCLC1;Dynein Light Chain LC8-Type 1;8 kDa Dynein Light Chain;Protein Inhibitor of Neuronal Nitric Oxide Synthase;HDLC1;DNCL1;DLC1;PIN

Research Background

Dyneins are multisubunit, high molecular weight ATPases that interact with microtubules to generate force by converting the chemical energy of ATP into the mechanical energy of movement. Cytoplasmic or axonemal Dynein heavy, intermediate, light and light-intermediate chains are all components of minus end-directed motors; the complex transports cellular cargos towards the central region of the cell. The highly conserved DYNLL proteins were

originally identified as light chains for microtubule-based motor protein Dynein. In mammals there are two closely related isoforms expressed, DYNLL1 and DYNLL2 which share 93% sequence identity at the protein level. DYNLL1 (Dynein light chain 1) also designated, DLC8 or PIN (Protein inhibitor of neuronal nitric oxide synthase) has been identified as a protein that interacts with NOS1 resulting in NOS1 inhibition. Dimerization is required for NOS1 activity and DYNLL1 has been shown to destabilize the NOS1 dimer. Nitric oxide may be involved in several processes such as apoptosis, synaptogenesis and neuronal development; thus DYNLL1 is implicated in these processes as well. DYNLL1 is a ubiquitously expressed protein that exhibits high expression in testis and moderate expression in brain.

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481