

Anti-DYNLL1 Antibody (2G523)

Product Details

Ig Type:	Rabbit IgG
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	2G523
Purification:	Affinity-chromatography

Applications

1. IHC image of TMAH-00372 diluted at 1:50 and staining in paraffin-embedded human breast cancer performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-rabbit polymer IgG labeled by HRP and visualized using 0.58% DAB.

Verified Activity: 2. Overlay Peak curve showing MCF-7 cells stained with TMAH-00372 (red line) at 1:50. The cells were fixed in 4% formaldehyde and permeated by 0.2% TritonX-100. Then 10% normal goat serum to block non-specific protein-protein interactions followed by the antibody (1µg/1*10⁶ cells) for 45min at 4°C. The secondary antibody used was FITC-conjugated Goat Anti-rabbit IgG (H+L) at 1:200 dilution for 35min at 4°C. Control antibody (green line) was rabbit IgG (1µg/1*10⁶ cells) used under the same conditions. Acquisition of >10,000 events was performed.

Application: ELISA,FCM,IHC

Recommended IHC:1:50-1:200; FCM:1:50-1:200.

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: A synthetic peptide: Human DYNLL1

Antigen Species: Human

Gene ID: 8655

Uniprot ID: P63167

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

Biology Area: Epigenetics and Nuclear Signaling, Neuroscience, Cancer, Cell biology, Metabolism, Signal transduction

Research Background

Acts as one of several non-catalytic accessory components of the cytoplasmic dynein 1 complex that are thought to be involved in linking dynein to cargos and to adapter proteins that regulate dynein function. Cytoplasmic dynein 1 acts as a motor for the intracellular retrograde motility of vesicles and organelles along microtubules. May play a role in changing or maintaining the spatial distribution of cytoskeletal structures. Binds and inhibits the catalytic activity of neuronal nitric oxide synthase. Promotes transactivation functions of ESR1 and plays a role in the nuclear localization of ESR1. Regulates apoptotic activities of BCL2L11 by sequestering it to microtubules. Upon apoptotic stimuli the BCL2L11-DYNLL1 complex dissociates from cytoplasmic dynein and translocates to mitochondria and sequesters BCL2 thus neutralizing its antiapoptotic activity.

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