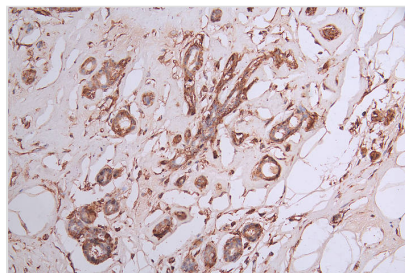




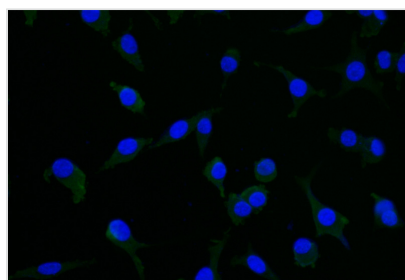
DPYSL2 Recombinant Monoclonal Antibody

Product Code	CSB-RA029079A0HU
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	Q16555
Immunogen	A synthesized peptide derived from Human DPYSL2
Species Reactivity	Human
Tested Applications	ELISA, IHC, IF, FC; Recommended dilution: IHC:1:50-1:200, IF:1:50-1:200, FC:1:50-1:200
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purification Method	Affinity-chromatography
Isotype	Rabbit IgG
Clonality	Monoclonal
Product Type	Recombinant Antibody
Immunogen Species	Homo sapiens (Human)
Research Area	Neuroscience
Gene Names	DPYSL2
Clone No.	20D8

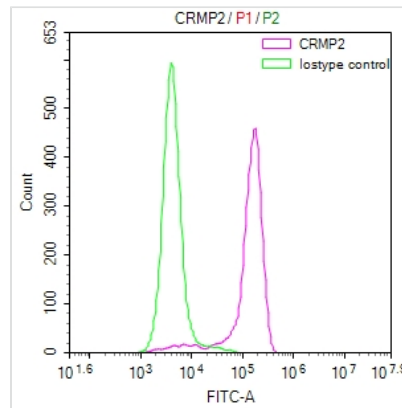
Image



IHC image of CSB-RA029079A0HU 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 0.35% DAB.



Immunofluorescence staining of SH-SY5Y with CSB-RA029079A0HU at 1:25, counter-stained with DAPI. The cells were fixed in 4% formaldehyde and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4°C. The secondary antibody was Alexa Fluor 506-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Overlay Peak curve showing SH-SY5Y cells stained with CSB-RA029079A0HU (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 (1 μ g/1 \times 10⁶ cells) for 45min at 4 $^{\circ}$ C. The secondary antibody used was FITC-conjugated Goat Anti-rabbit IgG(H+L) at 1:200 dilution for 35min at 4 $^{\circ}$ C. Control antibody (green line) was rabbit IgG (1 μ g/1 \times 10⁶ cells) used under the same conditions. Acquisition of >10,000 events was performed.

Description

The production of the DPYSL2 recombinant monoclonal antibody is a meticulously executed process. It initiates with in vitro cloning, where genes for both the heavy and light chains of the DPYSL2 antibody are cloned into expression vectors. Subsequently, these vectors are introduced into host cells, creating an environment conducive to the recombinant antibody's expression within a cell culture setting. After expression, the DPYSL2 recombinant monoclonal antibody is purified from the cell culture supernatant through affinity chromatography. A remarkable feature of this antibody is its specific binding to the human DPYSL2 protein. Furthermore, its versatility is evident, as it is well-suited for various applications, including ELISA, IHC, IF, and FC.

DPYSL2 is a multifunctional protein that plays a central role in nervous system development and function. It is involved in neurite outgrowth, axon guidance, synaptic plasticity, neuronal signaling, and neuronal survival. Dysregulation of DPYSL2 has implications for various neurological disorders and conditions.