Polyclonal Olig2 Antibody, Rabbit IgG

Catalog # OL2-S456

Source

Rabbit

Isotype

Rabbit IgG

Conjugate

Unconjugated

Specificity

This product is a specific antibody specifically reacts with Olig2.

Purification

Protein A purified/ Protein G purified

Formulation

Supplied as 0.2 μm filtered solution in undefined.

Contact us for customized product form or formulation.

Shipping

This product is supplied and shipped with blue ice, please inquire the shipping cost.

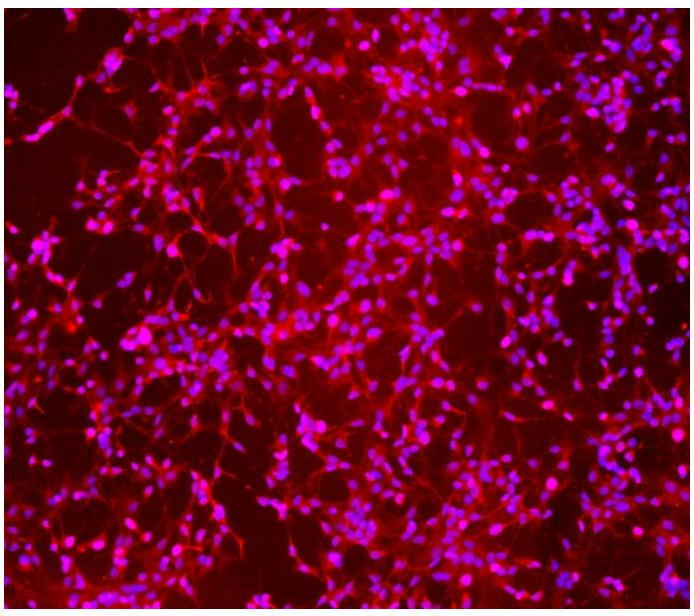
Storage

Please avoid repeated freeze-thaw cycles.

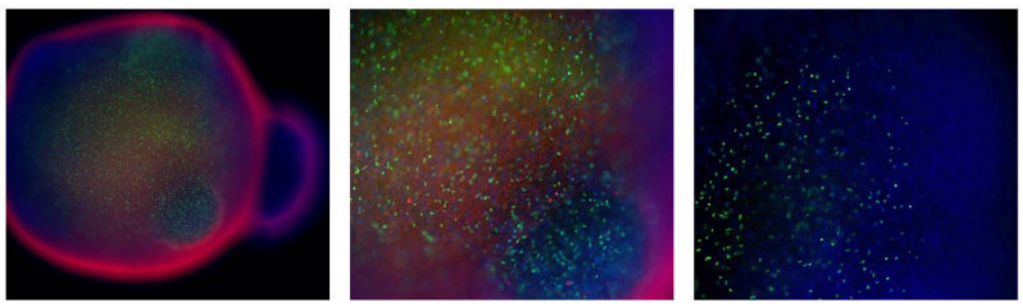
This product is stable after storage at:

- Shipped at 4°C. Store at -20/4°C for months and -80°C for years. Avoid freeze/thaw cycle.

Immunostaining



2D cell staining: Immunofluorescent staining (10X) of cerebral organoid-derived neurons (CIPO-BWL001K) labeling Olig2 (Red) with purified OL2-S456 at 1:200 dilution. DAPI (blue) was used as nuclear counterstain.



3D organoid staining: Immunofluorescent staining (4x or 10X) of cerebral organoid-(CIPO-BWL001K) labeling Olig2 (Green) with purified OL2-S456 at 1:200 dilution. DAPI (blue) was used as nuclear counterstain. TUJ1 (red) is a neural differentiation marker commonly used to label neural processes.

Background

The oligodendrocyte transcription factor 2 (Olig2) is a basic helix-loop-helix transcription factor which is highly expressed in the oligodendrocyte-lineage cells and in oligodendroglial tumors of the brain as well. Olig2 is an essential regulator of ventral neuroectodermal progenitor cell fate, especially regulating key stages of early oligodendrocyte development. Olig2 has also been reported to act as a gene repressor to determine the cell fate of motor neurons in the spinal cord. Olig2 is a useful marker for primary and mature oligodendrocytes as well as a marker of malignant glioma.

Clinical and Translational Updates