

Product Datasheet

Anti-VSP/TPTE Antibody FL490 Conjugate



Overview

Catalog #	75-486-FL490
Conjugate	FL490 Ex: 491 nm, Em: 515 nm
Isotype	IgG1
Clone Number	N432/63
Size	200 μ L
Concentration	0.5 mg/mL
Host Species	Mouse Monoclonal
Format	Purified by Protein A chromatography
Buffer	PBS with 0.09% azide
Applications	ICC
Species Reactivity	Chicken, Xenopus, Zebrafish
Immunogen	Fusion protein amino acids 153-335 of zebrafish TPTE (accession number Q4V9E4) produced recombinantly in E. Coli
Molecular Weight	40-60 kDa
Cite this Antibody	Antibodies Inc Cat# 75-486-FL490, RRID: AB_2940624

Details

Target Description	TPTEs (transmembrane phosphatases with tensin homology) aka VSPs (voltage sensing phosphatases) catalyze the dephosphorylation of phosphatidylinositol phosphates (PIPs) that regulate diverse aspects of cell membrane physiology including cell division, growth and migration (Ratzan W. et al., 2019). TPTEs are also thought to be involved in signal transduction pathways of the endocrine or spermatogenetic function of the testis (Chen H. et al., 1999).
Specificity	No cross-reactivity reported
Purification Method	Produced by in vitro bioreactor culture of hybridoma line followed by Protein A affinity chromatography and conjugation of purified mAb. Purified mAbs are >90% specific antibody.
Quality Control Tests	Each new lot of antibody is quality control tested on cells overexpressing target protein and confirmed to give the expected staining pattern.
Storage	Aliquot and store at $\leq -20^{\circ}\text{C}$ for long term storage. For short term storage, store at $2-8^{\circ}\text{C}$. For maximum recovery of product, centrifuge the vial prior to removing the cap.

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