

## Product Datasheet

## Anti-VSP/TPTE Antibody FL490 Conjugate



## Overview

<b>Catalog #</b>	75-485-FL490
<b>Conjugate</b>	FL490 Ex: 491 nm, Em: 515 nm
<b>Isotype</b>	IgG2a
<b>Clone Number</b>	N432/21
<b>Size</b>	200 $\mu$ L
<b>Concentration</b>	0.5 mg/mL
<b>Host Species</b>	Mouse Monoclonal
<b>Format</b>	Purified by Protein A chromatography
<b>Buffer</b>	PBS with 0.09% azide
<b>Applications</b>	ICC, IHC
<b>Species Reactivity</b>	Chicken, Xenopus, Zebrafish
<b>Immunogen</b>	Fusion protein amino acids 153-335 of zebrafish TPTE (accession number Q4V9E4) produced recombinantly in E. Coli
<b>Molecular Weight</b>	40-60 kDa
<b>Cite this Antibody</b>	Antibodies Inc Cat# 75-485-FL490, RRID: AB_2940620

## Details

<b>Target Description</b>	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 spermatogenic function of the testis (Chen H. et al., 1999).
<b>Specificity</b>	No cross-reactivity reported
<b>Purification Method</b>	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.
<b>Quality Control Tests</b>	Each new lot of antibody is quality control tested on cells overexpressing target protein and confirmed to give the expected staining pattern.
<b>Storage</b>	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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