

Product Datasheet

Anti-Botch Antibody FL490 Conjugate



Overview

Catalog #	75-181-FL490
Conjugate	FL490 Ex: 491 nm, Em: 515 nm
Isotype	IgG1
Clone Number	N116/14
Size	200 µL
Concentration	0.5 mg/mL
Host Species	Mouse Monoclonal
Format	Purified by Protein A chromatography
Buffer	PBS with 0.09% azide
Applications	ICC, IHC
Species Reactivity	Human, Mouse, and Rat
Immunogen	Fusion protein amino acids 1-222 (full-length) of rat Botch1 (accession number B3STU3.1) produced recombinantly in E. Coli
Molecular Weight	25 kDa
Cite this Antibody	Antibodies Inc Cat# 75-181-FL490, RRID: AB_2939668

Details

Target Description	Cation transport regulator-like protein 1, Glutathione-Specific Gamma-Glutamylcyclotransferase 1 or Botch1 is encoded by the gene CHAC1. Chac1 is a member of the gamma-glutamylcyclotransferase family. It is an enzyme that acts to catalyze the cleavage of glutathione into 5-oxo-L-proline and a Cys-Gly dipeptide. Chac1 is involved in neuronal differentiation by deglycation of the Notch receptor, which prevents receptor maturation and inhibits Notch signaling. CHAC1 is expressed in tissues including brain (forebrain and anterior spinal cord), and heart. Diseases associated with CHAC1 include Ovarian Embryonal Carcinoma and Ovarian Cancer.
Specificity	No cross-reactivity against Botch2/Chac2
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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