

## Product Datasheet

## Anti-Copper ATPase 2 (Wilson's Disease Protein) Antibody FL594 Conjugate



## Overview

<b>Catalog #</b>	75-143-FL594
<b>Conjugate</b>	FL594 Ex: 594 nm, Em: 615 nm
<b>Isotype</b>	IgG1
<b>Clone Number</b>	L62/29
<b>Size</b>	200 µL
<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>	Human, Mouse, and Rat
<b>Immunogen</b>	Synthetic peptide amino acids 3-21 (cytoplasmic N- terminus) of human Copper-transporting ATPase 2 (accession number P35670)
<b>Molecular Weight</b>	160 kDa in rat brain membrane preparations
<b>Cite this Antibody</b>	Antibodies Inc Cat# 75-143-FL594, RRID: AB_2939530

## Details

<b>Target Description</b>	Copper-transporting ATPase 2 or Copper-transporting ATPase Beta is encoded by the gene ATP7B and belongs to the cation transport ATPase (P-type) family. Copper-transporting ATPase 2 is a transmembrane enzyme that functions to provide copper to copper requiring proteins in the golgi network and is also to remove excess copper across plasma membranes out of the cell Copper-transporting ATPase 2 is expressed in liver and in lower levels in brain, heart, kidney, placenta and lung. In liver, it is involved in removing copper from hepatocytes into the bile for removal. Diseases associated with this gene include Wilson Disease and Menkes Disease.
<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 by western blot on rat whole brain lysate and confirmed to stain the expected molecular weight band.

**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.

**Our Guarantee**

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