

## Product datasheet for **AM05216PU-N**

### **p110 (mitochondrial membrane protein) Mouse Monoclonal Antibody [Clone ID: 2G2]**

#### **Product data:**

**Product Type:** Primary Antibodies

**Clone Name:** 2G2

**Applications:** IF, WB

**Recommended Dilution:** **Western Blot** (2-10 ug/ml)  
**Immunofluorescence.**

**Reactivity:** Human, Monkey

**Host:** Mouse

**Isotype:** IgG1

**Clonality:** Monoclonal

**Immunogen:** Skeletal fraction of HeLa-S3 cells.

**Specificity:** Reacts with Human and Monkey mitochondria.  
It does **not** react with Chicken, Mouse or Rat.

After stabilization with Aldehyde- or Alcohol-based fixation protocols that optimize the preservation of cytoskeletal components, the epitope targeted by the 2G2 antibody may serve as a valuable marker in the investigation of relationships between mitochondria and other cellular structures in Human cells.

The Mouse monoclonal P110 antibody labels mitochondria in Human cells, as assessed by double staining with either Rhodamine 123 or a polyclonal antibody to mitochondrial matrix HSP-60 proteins. The P110 antigen has an approximate isoelectric point of 6.5 that copartitions with HSP-60 proteins during isolation of mitochondria from HeLa cells. The P110 staining pattern in HeLa and Fanconi's anaemia cells reveals differences in the morphology and organization of mitochondria in these two cell types. In HeLa cells, mitochondria appear as individual tubular compartments of variable length and are closely associated with vimentin filaments, particularly at the periphery of the nucleus. In Fanconi's anaemia cells, mitochondria have a filamentous shape and form an interconnected cytoplasmic reticulum running in parallel with both vimentin filaments and microtubules.

**Formulation:** PBS

State: Purified

State: Liquid purified IgG fraction from Ascites

Preservative: 0.08% Sodium Azide



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<b>Concentration:</b>	lot specific
<b>Purification:</b>	Protein A/G Chromatography
<b>Conjugation:</b>	Unconjugated
<b>Storage:</b>	Upon receipt, store undiluted (in aliquots) at -20°C. Avoid repeated freezing and thawing.
<b>Stability:</b>	Shelf life: one year from despatch.
<b>Background:</b>	P110 is a human mitochondrial protein with a molecular weight of 110 kDa. Close examination of the staining pattern in HeLa and Fanconi's Anemia cells reveal differences in the morphology and organization of mitochondria in these two cell types. The epitope targeted may serve as a valuable marker in the investigation of relationships between mitochondria and other cellular structures in human cells.