# Product Name: OPA1 (8F7) Rabbit Monoclonal Antibody Enkilife Catalog #: AMRe15355

# **Summary**

Production Name OPA1 (8F7) Rabbit Monoclonal Antibody

**Description** Rabbit Monoclonal Antibody

**Host** Rabbit

**Application** WB,IHC-P,IF-P **Reactivity** Human,Mouse,Rat

## **Performance**

ConjugationUnconjugatedModificationUnmodified

**Isotype** IgG

Clonality Monoclonal Form Liquid

**Storage** Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% New type

**Buffer** preservative N and 50% glycerol. Store at +4°C short term. Store at -20°C long term.

Avoid freeze / thaw cycle.

**Purification** Affinity purification

## **Immunogen**

Gene Name OPA1

Large GTP binding protein; largeG; MGM1; Mitochondrial dynamin like GTPase; NPG; Alternative Names

NTG; OAK; OPA 1;

**Gene ID** 4976.0 **SwissProt ID** 060313.

# **Application**

**Dilution Ratio** WB 1:1000-1:5000, IHC-P/IF-P 1:200-1:500

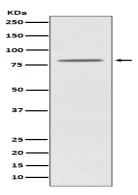
**Molecular Weight** 112kDa

## **Background**

Dynamin-related GTPase required for mitochondrial fusion and regulation of apoptosis. May form a diffusion barrier for proteins stored in mitochondrial cristae. Proteolytic processing in response to intrinsic apoptotic signals may lead to disassembly of OPA1 oligomers and release of the caspase activator cytochrome C (CYCS) into the mitochondrial intermembrane space. Dynamin-related GTPase that is essential for normal mitochondrial morphology by regulating the equilibrium between mitochondrial fusion and mitochondrial fission (PubMed: <a href="http://www.uniprot.org/citations/16778770" target=" blank">16778770</a>, PubMed:<a href="http://www.uniprot.org/citations/17709429" target=" blank">17709429</a>, PubMed:<a href="http://www.uniprot.org/citations/20185555" target=" blank">20185555</a>, PubMed:<a href="http://www.uniprot.org/citations/24616225" target=" blank">24616225</a>, PubMed:<a href="http://www.uniprot.org/citations/28746876" target=" blank">28746876</a>). Coexpression of isoform 1 with shorter alternative products is required for optimal activity in promoting mitochondrial fusion (PubMed: <a href="http://www.uniprot.org/citations/17709429" target=" blank">17709429</a>). Binds lipid membranes enriched in negatively charged phospholipids, such as cardiolipin, and promotes membrane tubulation (PubMed: <a href="http://www.uniprot.org/citations/20185555" target=" blank">20185555</a>). The intrinsic GTPase activity is low, and is strongly increased by interaction with lipid membranes (PubMed:<a href="http://www.uniprot.org/citations/20185555" target=" blank">20185555</a>). Plays a role in remodeling cristae and the release of cytochrome c during apoptosis (By similarity). Proteolytic processing in response to intrinsic apoptotic signals may lead to disassembly of OPA1 oligomers and release of the caspase activator cytochrome C (CYCS) into the mitochondrial intermembrane space (By similarity). Plays a role in mitochondrial genome maintenance (PubMed: <a href="http://www.uniprot.org/citations/20974897" target=" blank">20974897</a>, PubMed:<a href="http://www.uniprot.org/citations/18158317" target="blank">18158317</a>).

#### **Research Area**

#### **Image Data**



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Western blot analysis of OPA1 expression in HeLa cell lysate.

### Note

For research use only.

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