

# Anti-OMI Antibody

Catalog # AP95874

## Product Information

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|                   |                        |
|-------------------|------------------------|
| Application       | WB, IHC, FC            |
| Primary Accession | <a href="#">O43464</a> |
| Reactivity        | Human, Mouse, Rat      |
| Host              | Mouse                  |
| Clonality         | Monoclonal             |
| Calculated MW     | 48841                  |

## Additional Information

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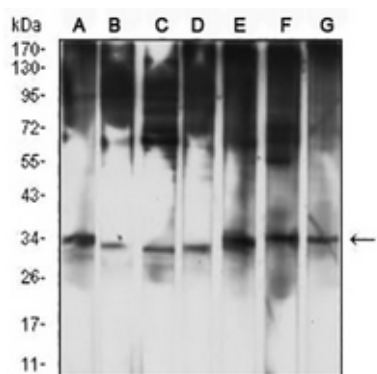
|                    |                                                                                                                                                                                 |
|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Gene ID            | 27429                                                                                                                                                                           |
| Other Names        | OMI; PRSS25; Serine protease HTRA2, mitochondrial; High temperature requirement protein A2; HtrA2; Omi stress-regulated endoprotease; Serine protease 25; Serine proteinase OMI |
| Target/Specificity | Recombinant fusion protein of human OMI expressed in E. Coli                                                                                                                    |
| Dilution           | WB~~WB (1/500 - 1/1000) IHC~~1:100~500 FC~~FC (1/100 - 1/200)                                                                                                                   |
| Format             | Mouse IgG1. Liquid in PBS, pH 7.3, 30% glycerol, and 0.01% sodium azide.                                                                                                        |
| Storage            | Store at -20 °C.Stable for 12 months from date of receipt                                                                                                                       |

## Protein Information

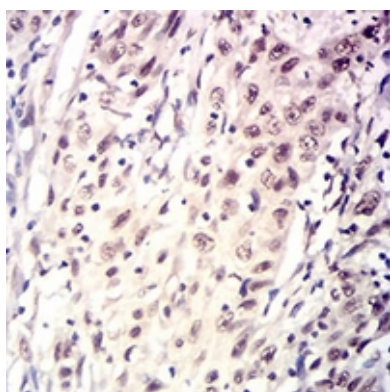
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| Name              | HTRA2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Synonyms          | OMI, PRSS25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Function          | [Isoform 1]: Serine protease that shows proteolytic activity against a non-specific substrate beta-casein (PubMed: <a href="#">10873535</a> ). Promotes apoptosis by either relieving the inhibition of BIRC proteins on caspases, leading to an increase in caspase activity; or by a BIRC inhibition-independent, caspase-independent and serine protease activity-dependent mechanism (PubMed: <a href="#">15200957</a> ). Cleaves BIRC6 and relieves its inhibition on CASP3, CASP7 and CASP9, but it is also prone to inhibition by BIRC6 (PubMed: <a href="#">36758104</a> , PubMed: <a href="#">36758105</a> ). Cleaves THAP5 and promotes its degradation during apoptosis (PubMed: <a href="#">19502560</a> ). |
| Cellular Location | Mitochondrion intermembrane space. Mitochondrion membrane; Single-pass membrane protein Note=Predominantly present in the intermembrane space. Released into the cytosol following apoptotic stimuli, such as UV treatment, and stimulation of mitochondria with caspase-8 truncated BID/tBID                                                                                                                                                                                                                                                                                                                                                                                                                           |

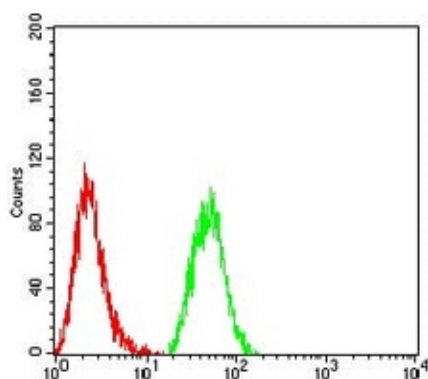
## Images



Western blot analysis of OMI expression in HL60 (A), HepG2 (B), MCF7 (C), HeLa (D), PC12 (E), C2C12 (F), Raji (G) whole cell lysates. (Predicted band size: 49 kD; Observed band size: 34 kD)



Immunohistochemical analysis of OMI staining in human esophageal cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Flow cytometric analysis of HeLa cells using Anti-OMI Antibody (green) and negative control (red).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.