# PMAIP1 Antibody – Rabbit Polyclonal

## PRODUCT OVERVIEW

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| **Product Name** | PMAIP1, Polyclonal Antibody |
| **Full Product Name** | PMAIP1 Antibody, FITC conjugated |
| **Product Gene Name** | anti-PMAIP1 antibody |
| **Product Synonym Names** | Phorbol-12-myristate-13-acetate-induced protein; 1PMA-induced protein 1; Immediate-early-response protein APR; Protein Noxa; PMAIP1; NOXA |
| **Clonality** | Polyclonal |
| **Isotype** | IgG |
| **Host** | Rabbit |
| **Species Reactivity** | Human |
| **Form/Format** | Liquid |
| **Purity/Purification** | >95%, Protein G purified |
| **Preparation and Storage** | Shipped at 4 degree C. Upon delivery aliquot and store at -20 degree C or -80 degree C. Avoid repeated freeze. |
| **Matching Pairs** | Unconjugated Antibody: PMAIP1 (MBS7044800)<br>FITC Conjugated Antibody: PMAIP1 (MBS7045902) |
| **Molecular Weight** | 14,955 Da |
| **OMIM** | 604959 |
| **3D Structure** | ModBase 3D Structure for Q13794 |
| **Species** | Human |
| **Immunogen** | Recombinant human Phorbol-12-myristate-13-acetate-induced protein 1 protein |
| **Conjugate** | FITC |
| **Buffer** | Preservative: 0.03% Proclin 300<br>Constituents: 50% Glycerol, 0.01M PBS, PH 7.4 |
| **Santa Cruz Alternative** | Potential replacement for Santa Cruz Biotechnology antibody catalog# sc-26919 / sc-26917 / sc-30209 |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Applications Tested/Suitable for anti-PMAIP1 antibody** | ELISA (EIA) |
| **Related Product Information for anti-PMAIP1 antibody** | Promotes activation of caspases and apoptosis. Promotes mitochondrial membrane changes and efflux of apoptogenic proteins from the mitochondria. Contributes to p53/TP53-dependent apoptosis after radiation exposure. Promotes proteasomal degradation of MCL1. Competes with BAK1 for binding to MCL1 and can displace BAK1 from its binding site on MCL1 (By similarity). Competes with BIM/BCL2L11 for binding to MCL1 and can displace BIM/BCL2L11 from its binding site on MCL1. |
| **Other Notes** | Small volumes of anti-PMAIP1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |
| **Searchable Terms for PMAIP1 purchase** | MBS7045902 is an antibody targeting PMAIP1. Also known as PMAIP1 Antibody, FITC conjugated. Reactive in Human. Host: Rabbit. |

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PMAIP1. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 10863923 |
| **NCBI GeneID** | 5366 |
| **NCBI Accession #** | NP_066950.1 |
| **UniProt Primary Accession #** | Q13794 |
| **UniProt Secondary Accession #** | Q8N589; B2R4T7 |
| **UniProt Related Accession #** | Q13794 |
| **GenBank Nucleotide #** | NM_021127.2 |
| **NCBI Official Full Name** | phorbol-12-myristate-13-acetate-induced protein 1 |
| **NCBI Official Synonym Full Names** | phorbol-12-myristate-13-acetate-induced protein 1 |
| **NCBI Official Symbol** | PMAIP1 |
| **NCBI Official Synonym Symbols** | APR; NOXA |
| **UniProt Protein Name** | Phorbol-12-myristate-13-acetate-induced protein 1 |
| **UniProt Synonym Protein Names** | Immediate-early-response protein APR; Protein Noxa |
| **Protein Family** | Phorbol-12-myristate-13-acetate-induced protein |
| **UniProt Gene Name** | PMAIP1 |
| **UniProt Synonym Gene Names** | NOXA; PMA-induced protein 1 |
| **UniProt Entry Name** | APR_HUMAN |
| **NCBI Protein Information** | phorbol-12-myristate-13-acetate-induced protein 1 |
| **UniProt Comments for PMAIP1** | NOXA: Promotes activation of caspases and apoptosis. Promotes mitochondrial membrane changes and efflux of apoptogenic proteins from the mitochondria. Contributes to p53/TP53-dependent apoptosis after radiation exposure. Promotes proteasomal degradation of MCL1. Competes with BAK1 for binding to MCL1 and can displace BAK1 from its binding site on MCL1. Competes with BIM/BCL2L11 for binding to MCL1 and can displace BIM/BCL2L11 from its binding site on MCL1. Interacts with MCL1, BCL2A1 and BAX. Up-regulated by p53/TP53, phorbol esters, double- stranded RNA, IFNB1/IFN-beta and viruses. Highly expressed in adult T-cell leukemia cell line. Belongs to the PMAIP1 family.<br><br>Protein type: Apoptosis; Mitochondrial<br><br>Chromosomal Location of Human Ortholog: 18q21.32<br><br>Cellular Component: cytosol; mitochondrial outer membrane; mitochondrion; nucleus<br><br>Molecular Function: protein binding<br><br>Biological Process: apoptosis; cellular response to glucose starvation; defense response to virus; positive regulation of apoptosis; positive regulation of caspase activity; positive regulation of DNA damage response, signal transduction by p53 class mediator; positive regulation of protein oligomerization; proteasomal protein catabolic process; protein insertion into mitochondrial membrane during induction of apoptosis; regulation of apoptosis; regulation of mitochondrial membrane permeability; response to dsRNA; T cell homeostasis |
| **Research Articles on PMAIP1** | **1.** SATB1 as a Dual Regulator of Anti-Apoptotic BCL2 and Pro-Apoptotic NOXA Genes |
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