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Goat Anti-NOXA Antibody

Peptide-affinity purified goat antibody
Catalog # AF2179a

Specification

Goat Anti-NOXA Antibody - Product Information

Application	**WB**
Primary Accession	Q13794
Other Accession	NP_066950, 5366
Reactivity	**Human**
Host	**Goat**
Clonality	**Polyclonal**
Concentration	**100ug/200ul**
Isotype	**IgG**
Calculated MW	**6030**

Goat Anti-NOXA Antibody - Additional Information

Gene ID 5366

Other Names
Phorbol-12-myristate-13-acetate-induced protein 1, PMA-induced protein 1, Immediate-early-response protein APR, Protein Noxa, PMAIP1, NOXA

Format
0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
Goat Anti-NOXA Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-NOXA Antibody - Protein Information

Name PMAIP1

Synonyms NOXA

Function
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.

Cellular Location
Mitochondrion

Tissue Location
Highly expressed in adult T-cell leukemia cell line

Goat Anti-NOXA Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Goat Anti-NOXA Antibody - Images



AF2179a (0.03 µg/ml) staining of Human Cerebellum lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

Goat Anti-NOXA Antibody - References

A p38(MAPK)/HIF-1 pathway initiated by UVB irradiation is required to induce Noxa and apoptosis of human keratinocytes. Nys K, et al. J Invest Dermatol, 2010 Sep. PMID 20393480.
Perturbation of the Bcl-2 network and an induced Noxa/Bcl-xL interaction trigger mitochondrial dysfunction after DNA damage. Lopez H, et al. J Biol Chem, 2010 May 14. PMID 20223826.
The role of glucocorticoid receptor phosphorylation in Mcl-1 and NOXA gene expression. Lynch JT, et al. Mol Cancer, 2010 Feb 15. PMID 20156337.
Noxa is necessary for hydrogen peroxide-induced caspase-dependent cell death. Aikawa T, et al. FEBS Lett, 2010 Feb 19. PMID 20085765.
The anti-apoptotic protein BCL2L1/Bcl-xL is neutralized by pro-apoptotic PMAIP1/Noxa in neuroblastoma, thereby determining bortezomib sensitivity independent of prosurvival MCL1 expression. Hagenbuchner J, et al. J Biol Chem, 2010 Mar 5. PMID 20051518.