Datasheet for ABIN6655871

anti-NOXA antibody

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Overview

Quantity:	100 µg
Target:	NOXA (PMAIP1)
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This NOXA antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Immunogen:	Immunogen: Noxa Antibody was produced in mice prepared by repeated immunizations with the human protein Noxa. Immunogen Type: Recombinant Protein
Clone:	114C307-1
Isotype:	IgG1
Cross-Reactivity:	Human, Mouse (Murine)
Purification:	Anti-Noxa Antibody was purified by Protein G chromatography. A BLAST analysis was used to suggest cross-reactivity with Anti-Noxa from human and mouse based on 100% homology with the immunizing sequence. Cross-reactivity with Anti-Noxa from other sources has not been determined.

Target Details

Target:	NOXA (PMAIP1)
Alternative Name:	Noxa (PMAIP1 Products)
Background:	Synonyms: NOXA, Phorbol-12-myristate-13-acetate-induced protein 1, PMA-induced protein 1, Immediate-early-response protein APR, Protein Noxa Background: Anti-Noxa antibody detects human Noxa. Recently, a BH-3 only member of the Bcl-2 family have been identified in human and mouse and designated as Noxa (for damage). The expression of the Noxa gene involves direct activation of its promoter by p53. Increased expression of Noxa protein occurs in normal thymocytes but not in p53-deficient thymocytes. Noxa cDNA codes for a 103-amino acid protein. The coimmunoprecipitation data suggest that Noxa protein may interact with proteins belonging to the Bcl-2 family, such as, Bcl-XL and Mcl-1. Oda et al. have also shown that blocking the endogenous Noxa induction results in the suppression of apoptosis. Treatment of cells with Noxa antisense oligonucleotides blocks radiation-induced apoptosis suggesting that Noxa may represent a mediator of p53-dependent apoptosis. Anti-Noxa antibody is ideal for investigators involved in apaoptosis research. Gene Name: PMAIP1
Gene ID:	5366
NCBI Accession:	NP_066950
UniProt:	Q13794
Pathways:	p53 Signaling, Positive Regulation of Endopeptidase Activity, Regulation of Carbohydrate Metabolic Process, Positive Regulation of Response to DNA Damage Stimulus

Application Details

Application Notes:	Immunohistochemistry Dilution: 5 µg/mL Application Note: Anti-Noxa antibody is suitable for use by IF/ICC, IHC (p) and WB. Expect a band approximately 6 kDa on specific lysates. Specific conditions for reactivity should be optimized by the end user. Western Blot Dilution: 1-2 µg/mL
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.20.02 % (w/v) Sodium Azide

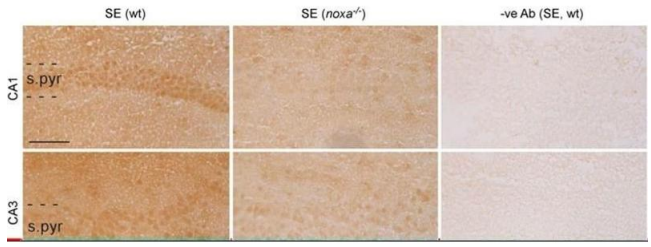
Handling

Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	RT,4 °C,-20 °C
Storage Comment:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

Publications

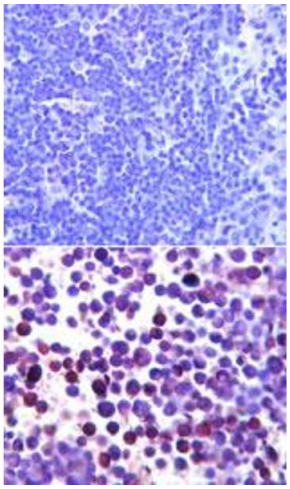
Product cited in:	Ichikawa, Alves, Pfeiffer, Langa, Hernández-Santana, Suzuki, Prehn, Engel, Henshall: "Deletion of the BH3-only protein Noxa alters electrographic seizures but does not protect against hippocampal damage after status epilepticus in mice." in: **Cell death & disease**, Vol. 8, Issue 1, pp. e2556, (2017) (PubMed).

Images



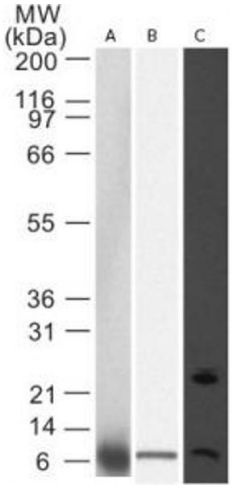
Immunohistochemistry

Image 1. Noxa immunostaining in seizure-damaged hippocampi from wt and Noxa-deficient mice. Representative photomicrographs showing Noxa immunostaining in the main hippocampal subfields 24h after SE. Noxa immunoreactivity is mainly confined to neuronal populations in wt mice (SE (wt)). There was minimal Noxa immunoreactivity in mice lacking noxa (SE (noxa-/-)). Noxa immunoreactivity was completely eliminated in tissue sections from wt mice in which the primary antibody was omitted (-Ab (SE, wt)). Scale bar, 100µm. s.pyr, stratum pyramidale, gcl, granule cell layer - figure provided by CiteAb. Source: PMID28079889



Immunohistochemistry

Image 2. Noxa Immunohistochemistry. Immunohistochemistry of mouse Anti-Noxa antibody. Tissue A: Human Rhabdomyosaroma. Tissue B: Human Lymphoma. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: Noxa antibody at 5 µg/ml for 1 h at RT. Secondary antibody: Peroxidase mouse secondary antibody at 1:10,000 for 45 min at RT. Localization: Noxa is subcellularly located in the mitochondrion. Staining: Noxa is stained by a hematoxylin purple nuclear counterstain.



Western Blotting

Image 3. Noxa Western Blot. Western Blot of Mouse Anti-Noxa antibody. Lane A: 293 calls transfected with human Noxa. Lane B: RL-7 cell. Lane C: T98G lysate. Primary antibody: Noxa antibody at 2 µg/mL for overnight at 4°C. Secondary antibody: mouse secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 80 kDa for Livin BIRC7 KIAP . Other band(s): none.