

Product datasheet

Anti-Noxa antibody [114C307] ab13654

★★★★★ 6 Abreviews 86 References 3 Images

Overview

Product name	Anti-Noxa antibody [114C307]
Description	Mouse monoclonal [114C307] to Noxa
Host species	Mouse
Tested applications	Suitable for: IHC-P, WB, Flow Cyt (Intra)
Species reactivity	Reacts with: Mouse, Human
Immunogen	Fusion protein containing human Noxa.
Positive control	WB: RL-7 cell lysate. Flow Cyt (Intra): Jurkat cells. IHC-P: Chronic Lymphocytic Leukemia (CLL) xenograft tissue.
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.40 Preservative: 0.02% Sodium azide Constituent: PBS
Purity	Protein G purified
Clonality	Monoclonal
Clone number	114C307
Isotype	IgG1

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab13654 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		Use a concentration of 5 µg/ml. Bouin-fixed.
WB	★★★★☆ (4)	Use a concentration of 1 - 2 µg/ml. Detects a band of approximately 11 kDa.
Flow Cyt (Intra)		Use 1 µg for 10 ⁶ cells. ab170190 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

Target

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.

Tissue specificity

Highly expressed in adult T-cell leukemia cell line.

Sequence similarities

Belongs to the PMAIP1 family.

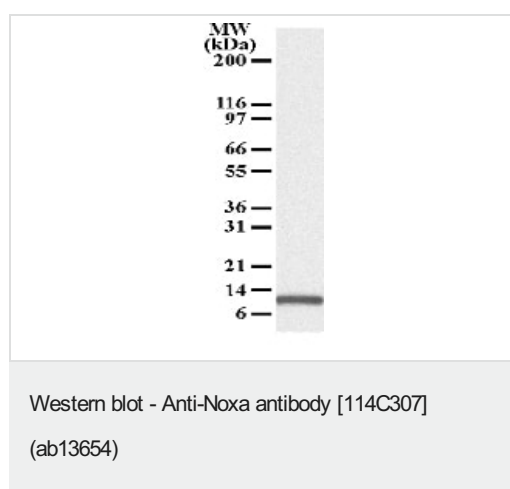
Domain

The BH3 motif is essential for pro-apoptotic activity.

Cellular localization

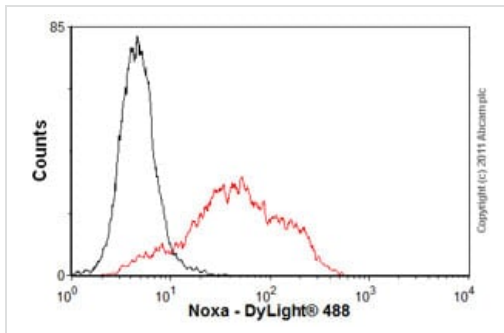
Mitochondrion.

Images



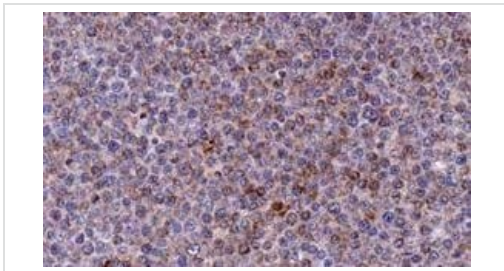
Western blot detection of Noxa in RL-7 cell (a follicular lymphoma) lysate. A protein of approximate molecular weight of 11 kDa is detected using ab13654 at 2 µg/ml.

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Flow Cytometry (Intracellular) - Anti-Noxa antibody [114C307] (ab13654)

Overlay histogram showing Jurkat cells stained with ab13654 (red line). The cells were fixed with 4% paraformaldehyde (10 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab13654, 1 µg/1x10⁶ cells) for 30 min at 22°C. The secondary antibody used was DyLight® 488 goat anti-mouse IgG (H+L) ([ab96879](#)) at 1/500 dilution for 30 min at 22°C. Isotype control antibody (black line) was mouse IgG1 [ICIGG1]([ab91353](#), 2 µg/1x10⁶ cells) used under the same conditions. Acquisition of >5,000 events was performed. This antibody gave a positive signal in Jurkat cells fixed with 80% methanol/permeabilized in 0.1% PBS-Tween used under the same conditions.



Immunohistochemistry paraffin embedded sections - Anti-Noxa antibody [114C307] (ab13654)

Bouin-fixed, paraffin-embedded human tonsil tissue stained for Chronic Lymphocytic Leukemia (CLL) xenograft tissue stained for Noxa using ab13654 at 1/2000 dilution in immunohistochemical analysis.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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