

10-1031: Monoclonal Antibody to NOXA (Clone: ABM16G6)

Clonality :	Monoclonal
Clone Name :	ABM16G6
Application :	FACS, WB
Reactivity :	Human
Gene :	PMAIP1
Gene ID :	5366
Uniprot ID :	Q13794
Format :	Purified
Alternative Name :	PMAIP1, NOXA
Isotype :	Mouse IgG1 Kappa
Immunogen Information :	Full length recombinant protein of NOXA was used as the immunogen for this antibody.

Description

Noxa is a BH3-only pro-apoptotic protein that mediates apoptosis by specifically inhibiting the anti-apoptotic Bcl-2 family member Mcl-1. It consists of 54 amino acids with one BH3 domain. The gene for NOXA is a target of p53. In response to cellular stress Noxa is induced by p53 and mediates p53-induced apoptosis. But more recently, it has been shown that NOXA can also be induced independently of p53 by other transcription factors such as p73 and E2F1. Noxa is also found to be induced by hypoxia-inducible factor (HIF-1) and mediates HIF-1 induced hypoxic cell death. Noxa is commonly upregulated in melanomas, and is associated with melanoma development and progression. Increase in Noxa expression is driven by oncogenic activation of MEK/ERK signaling through the transcription factor CREB (cAMP responsive element binding protein).

Product Info

Amount :	25 µg / 100 µg
Purification :	Protein G Chromatography
Content :	25 µg in 50 µl/100 µg in 200 µl PBS containing 0.05% BSA and 0.05% sodium azide. Sodium azide is highly toxic.
Storage condition :	Store the antibody at 4°C, stable for 6 months. For long-term storage, store at -20°C. Avoid repeated freeze and thaw cycles.

Application Note

Flow cytometry: 0.5-1 µg/10⁶ cells, WB: 4-6 µg/ml

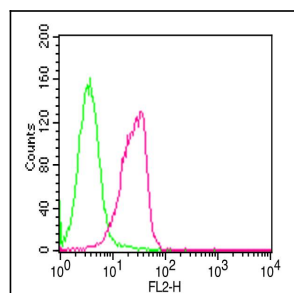


Figure-1: FLOW analysis of NOXA. Intercellular staining of Jurkat cells. Green represents mouse IgG1 Isotype control (ABEOMICS). Red represents Anti-NOXA antibody. 0.5 µg of antibody was used. Goat anti-mouse PE was used as secondary antibody.

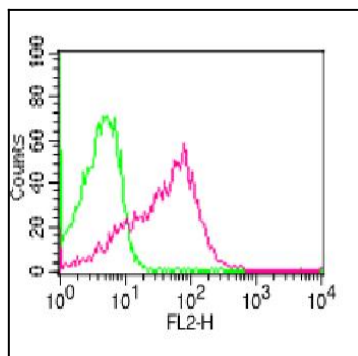


Figure-2: FLOW analysis of NOXA. Intercellular staining of PBMC. Green represents mouse IgG1 Isotype control (ABEOMICS). Red represents Anti-NOXA antibody. 0.5 ug of antibody was used. Goat anti-mouse PE was used as secondary antibody.

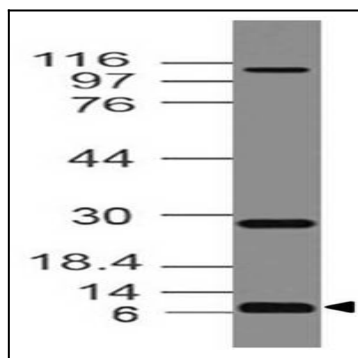


Figure-3: Western blot analysis of NOXA. Anti- NOXA antibody (Clone: ABM16G6) was used at 4 µg/ml on HCT-116 lysates.