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10-1018: Monoclonal Antibody to ATF6 (Clone: ABM1A40)

Clonality: Monoclonal **Clone Name:** ABM1A40 Application: FACS.WB Reactivity: Human Gene: ATF6 Gene ID: 22926 **Uniprot ID:** P18850 **Purified** Format: **Alternative Name:** ATF6

Isotype: Mouse IgG1 Kappa

Immunogen Information: A partial length recombinant ATF6 protein (amino acids 1-400) was used as the immunogen

for this antibody.

Description

ATF6, also named as Cyclic AMP-dependent transcription factor ATF-6 alpha is a member of bZIP family, ATF subfamily. ATF6 forms homodimer and heterodimer with ATF6-beta. ATF6 acts by activating specific unfolded protein response target genes during endoplasmic reticulum stress. ATF6 is a ubiquitously expressed transcription factor located at endoplasmic reticulum (ER) membrane. During ER stress an approximately 50 kDa fragment containing the N-terminal cytoplasmic domain is cleaved by proteolysis and is translocated into the nucleus. N-glycosylation may serve as a sensor for ER homeostasis. For the binding of ATF6 to ERSE, ESRE should first bind to another transcription factor called Nuclear Transcription Factor Y (NF-Y). ATF6 could also be involved in activation of transcription by interacting with serum response factor. ATF6 is a 74 kDa protein and is highly expressed in kidney, liver, colon and mammary gland.

Product Info

Amount : $25 \mu g / 100 \mu g$

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

Western blot analysis: 2-4 μg/ml, FACS: 0.5-1 μg/10⁶ cells



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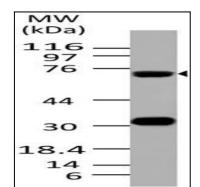


Fig-1: Expression analysis of ATF6. Anti- ATF6 antibody (Clone ABM1A40) was used at $2 \mu g/ml$ on K562 lysate.

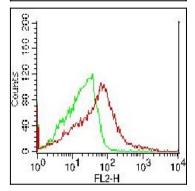


Fig-2: Intracellular staining of full length ATF6 plasmid and blank plasmid transfected HEK293 cells. 0.5 ug of anti-ATF6 antibody was used. Green represents blank plasmid, Red represents ATF6 expression plasmid. Goat anti-mouse PE was used as secondary antibody.

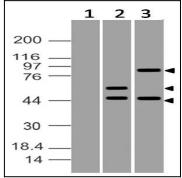


Fig-3: Expression analysis of ATF6. Anti- ATF6 antibody (Clone ABM1A40) was used at 2 μ g/ml on (1) Blank plasmid transfected HEK293 cells, (2) Partial length ATF6 plasmid transfected HEK293 cells and (3) Fulll length ATF6 plasmid transfected HEK293 cells.