

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

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| Clonality : | Monoclonal |
| Clone Name : | ABM1A40 |
| Application : | FACS,WB |
| Reactivity : | Human |
| Gene : | ATF6 |
| Gene ID : | 22926 |
| Uniprot ID : | P18850 |
| Format : | Purified |
| 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

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| 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

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

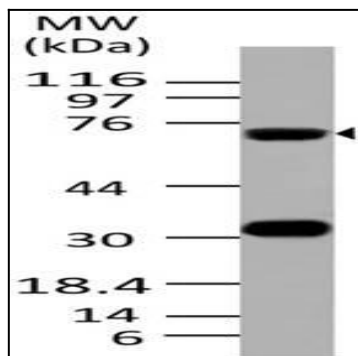


Fig-1: Expression analysis of ATF6. Anti- ATF6 antibody (Clone ABM1A40) was used at 2 µg/ml on K562 lysate.

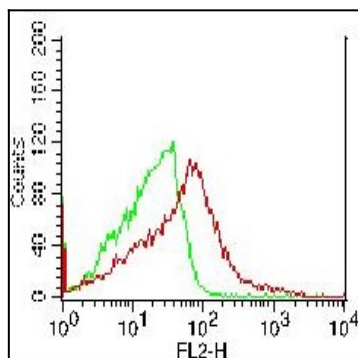


Fig-2: Intracellular staining of full length ATF6 plasmid and blank plasmid transfected HEK293 cells. 0.5 µg of anti-ATF6 antibody was used. Green represents blank plasmid, Red represents ATF6 expression plasmid. Goat anti-mouse PE was used as secondary antibody.

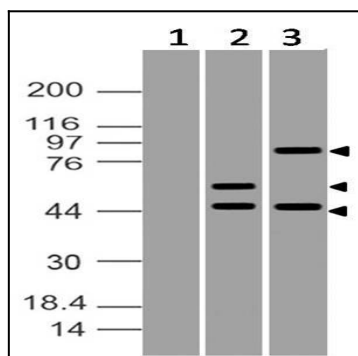


Fig-3: Expression analysis of ATF6. Anti- ATF6 antibody (Clone ABM1A40) was used at 2 µg/ml on (1) Blank plasmid transfected HEK293 cells, (2) Partial length ATF6 plasmid transfected HEK293 cells and (3) Full length ATF6 plasmid transfected HEK293 cells.