

Store at
-20C
#65880**ATF-6 (D4Z8V) Rabbit mAb**

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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W, IP	Reactivity: H M	Sensitivity: Endogenous	MW (kDa): 90-100	Source/Isotype: Rabbit IgG	UniProt ID: #P18850	Entrez-Gene Id: 22926
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Product Usage Information**Application**

Western Blotting
Immunoprecipitation

Dilution

1:1000
1:50

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

ATF-6 (D4Z8V) Rabbit mAb recognizes endogenous levels of total ATF-6 alpha protein. The antibody does not detect ATF-6 beta protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human ATF-6 alpha protein.

Background

Activating Transcription Factor-6 (ATF-6) is a transmembrane glycoprotein of the endoplasmic reticulum (ER). Upon accumulation of improperly folded proteins in the ER, ATF-6 is cleaved liberating a 50 kDa amino-terminal fragment that translocates to the nucleus (1, 2). There, ATF-6 activates transcription of ER chaperones and components of ER-associated degradation such as GRP78, XBP-1, and CHOP (3-5).

Background References

1. Ye, J. et al. (2000) *Mol Cell* 6, 1355-64.
2. Liu, C.Y. and Kaufman, R.J. (2003) *J Cell Sci* 116, 1861-2.
3. Thuerauf, D.J. et al. (2007) *J Biol Chem* 282, 22865-78.
4. Hirota, M. et al. (2006) *J Toxicol Sci* 31, 149-56.
5. Todd, D.J. et al. (2008) *Nat Rev Immunol* 8, 663-74.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting **IP:** Immunoprecipitation

Cross-Reactivity Key

H: Human **M:** Mouse

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