

Store at
-20°C

#33593

ATF-3 (D2Y5W) Rabbit mAb



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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W, ChIP	H M	Endogenous	23, 24	Rabbit IgG	#P18847	467

Product Usage Information

For optimal ChIP results, use 10 µl of antibody and 10 µg of chromatin (approximately 4 x 10⁶ cells) per IP. This antibody has been validated using SimpleChIP® Enzymatic Chromatin IP Kits.

Application	Dilution
Western Blotting	1:1000
Chromatin IP	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-3 (D2Y5W) Rabbit mAb recognizes endogenous levels of total ATF-3 protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with recombinant human ATF-3 protein.

Background

Activating transcription factor 3 (ATF-3) is a basic leucine zipper-type transcription factor belonging to the ATF/cAMP responsive element binding protein family. ATF-3 can form homodimers or heterodimers with other family members and depending on the cell types and promoter context, it can suppress or activate the transcription of its target genes (1,2). Expression of ATF-3 is induced by a variety of factors including cytokines, genotoxic agents, and physiological stress. For example, both metformin and high-density lipoprotein (HDL) can induce ATF-3 expression in macrophages (1,3-5). Research studies also indicate that ATF-3 can function as an oncogene or a tumor suppressor depending on the context (6,7).

Background References

1. Hai, T. et al. (1999) *Gene Expr* 7, 321-35.
2. Hai, T. and Hartman, M.G. (2001) *Gene* 273, 1-11.
3. Hai, T. et al. (2010) *Gene Expr* 15, 1-11.
4. De Nardo, D. et al. (2014) *Nat Immunol* 15, 152-60.
5. Kim, J. et al. (2014) *J Biol Chem* 289, 23246-55.
6. Yin, X. et al. (2008) *Oncogene* 27, 2118-27.
7. Wang, Z. et al. (2014) *Oncogene* Advanced online publication, doi:10.1038/onc.2014.426.

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 **ChIP:** Chromatin IP

Cross-Reactivity Key

H: Human **M:** Mouse

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