

# Product Datasheet

## ATF3 Antibody - BSA Free NBP1-02935

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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**NBP1-02935**

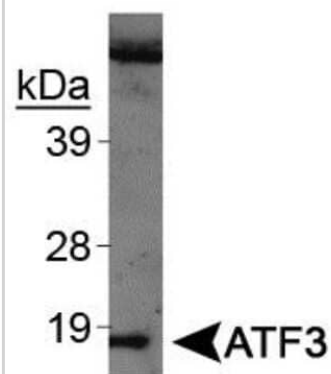
ATF3 Antibody - BSA Free

Product Information	
Unit Size	0.1 ml
Concentration	1.27 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.1% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	PBS and 30% Glycerol
Target Molecular Weight	17 kDa
Product Description	
Host	Rabbit
Gene ID	467
Gene Symbol	ATF3
Species	Human, Mouse, Rat, Mammal
Reactivity Notes	Predicted to react with most mammalian species based on sequence homology.
Immunogen	A synthetic peptide corresponding to a region of human ATF3 (within residues 100-150). [UniProt# P18847]
Product Application Details	
Applications	Western Blot, ELISA, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 1:200, ELISA 1:100-1:2000, Immunohistochemistry 5 ug/ml, Immunohistochemistry-Paraffin 5 ug/ml
Application Notes	This ATF3 antibody is useful for Western Blot, ELISA and Immunohistochemistry paraffin embedded sections.

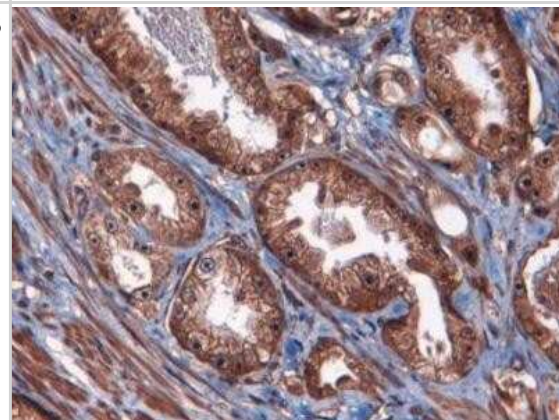


## Images

Western Blot: ATF3 Antibody [NBP1-02935] - Western blot analysis of ATF3 on UV treated NIH/3T3 cell extracts using NBP1-02935.



Immunohistochemistry: ATF3 Antibody [NBP1-02935] - Analysis of ATF3 in human prostate using Fast Red with hematoxylin counterstain.



## Publications

Hu J, Dang N, Menu E et al. Activation of ATF4 mediates the unwanted Mcl-1 accumulation by proteasome inhibition. *Blood*. 2011-11-29 [PMID: 22128141]

Maciag AE, Nandurdikar RS, Hong SY et al. Activation of the c-Jun N-terminal kinase/activating transcription Factor 3 (ATF3) pathway characterizes effective arylated diazeniumdiolate-based nitric oxide-releasing anticancer prodrugs. *J Med Chem*;54(22):7751-8. 2011-11-24 [PMID: 22003962] (IHC-P, Human)

## Procedures

### Protocol specific for FIH Antibody (NBP1-02935)

#### ATF3 Antibody:

#### Western Blot Protocol

1. Perform SDS-PAGE (4-12% MOPS) on samples to be analyzed, loading 40 ug of total protein per lane.
  2. Transfer proteins to Nitrocellulose according to the instructions provided by the manufacturer of the transfer apparatus.
  3. Rinse membrane with dH<sub>2</sub>O and then stain the blot using Ponceau S for 1-2 minutes to access the transfer of proteins onto the nitrocellulose membrane. Rinse the blot in water to remove excess stain and mark the lane locations and locations of molecular weight markers using a pencil.
  4. Rinse the blot in TBS for approximately 5 minutes.
  5. Block the membrane using 5% NFD<sub>M</sub> + 1% BSA in TBS + Tween, 1 hour at RT.
  6. Rinse the membrane in dH<sub>2</sub>O and then wash the membrane in wash buffer [TBS + 0.1% Tween] 3 times for 10 minutes each.
  7. Dilute the rabbit anti-ATF3 primary antibody (NBP1-02935) in blocking buffer and incubate 1 hour at room temperature.
  8. Rinse the membrane in dH<sub>2</sub>O and then wash the membrane in wash buffer [TBS + 0.1% Tween] 3 times for 10 minutes each.
  9. Apply the diluted rabbit-IgG HRP-conjugated secondary antibody in blocking buffer (as per manufacturers instructions) and incubate 1 hour at room temperature.
  10. Wash the blot in wash buffer [TBS + 0.1% Tween] 3 times for 10 minutes each (this step can be repeated as required to reduce background).
  11. Apply the detection reagent of choice in accordance with the manufacturers instructions (Pierce ECL).
- Note: Tween-20 can be added to the blocking or antibody dilution buffer at a final concentration of 0.05-0.2%, provided it does not interfere with antibody-antigen binding.



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### **Products Related to NBP1-02935**

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NBP1-02935PEP	ATF3 Antibody Blocking Peptide
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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