

Product datasheet for **AM60070PU-N**

ATF 4 (ATF4) (25-327) Mouse Monoclonal Antibody [Clone ID: S360-A-24]

Product data:

Product Type:	Primary Antibodies
Clone Name:	S360-A-24
Applications:	IF, IHC, WB
Recommended Dilution:	Western blot: 1/1000; 1 µg/ml was sufficient for detection of ATF4 in 20 µg of rat brain lysate by colorimetric immunoblot using HRP conjugated secondary antibody. Immunocytochemistry. Immunohistochemistry: Free floating sections, fixed in formaldehyde.
Reactivity:	Human, Rat
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Fusion protein amino acids 25-327 (nearly full-length, all but first 24 amino acids) of human ATF4; <50% identity with ATF5.
Specificity:	This antibody detects 60 kDa protein. Does not cross-react with ATF5.
Formulation:	PBS pH 7.4, 50% Glycerol, 0,09% Sodium azide State: Purified State: Liquid purified IgG fraction
Concentration:	lot specific
Purification:	Protein G chromatography
Conjugation:	Unconjugated
Storage:	Upon receipt, store undiluted (in aliquots) at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: One year from despatch.
Gene Name:	activating transcription factor 4
Database Link:	Entrez Gene 468 Human P18848



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Background:

Cyclic AMP-dependent transcription factor ATF-4 (ATF4) is a basic leucine-zipper (bZip) transcription factor, which regulates amino acid metabolism, DNA damage repair, chromatin remodeling, and apoptosis in response to cellular and ER stress. ATF4 works with various proteins, such as C/EBP homology protein (CHOP), asparagine synthetase (ASNS), and cAMP response element (CRE) among others to mediate cellular stress. ATF4 also regulates glucose homeostasis by suppressing beta-cell proliferation and insulin production. Furthermore, ATF4 targets the histone demethylase JMJD3 to alter chromatin structure and enhance gene transcription in response to amino acid deprivation.

Synonyms:

CREB2, CREB-2, TXREB, Activating transcription factor 4, ATF-4