

Activating Transcription Factor 4 (ATF4) Monoclonal Antibody

ORDERING INFORMATION

Catalog no.: 56583 (clone 343-26)

Format: 100ug (1mg/ml) Protein G-purified antibody in PBS, pH 7.4, 0.1% sodium azide, 50% glycerol.

BACKGROUND

ATF4 belongs to the large ATF/CREB family of transcription factors. These proteins bind DNA via their basic region and dimerize via their leucine zipper domain to form a variety of homo- and heterodimers that regulate gene transcription. Two alternative transcripts encoding the same protein have been described. ATF4 transcription factor is also known to play role in osteoblast differentiation. Terminal osteoblast differentiation, is significantly inhibited by the inactivation of JNK; JNK inactivation downregulates expression of ATF-4.

SPECIFICATION SUMMARY

Antigen: Fusion protein corresponding to aa 25-327 of human ATF4. This sequence is 86% identical in rat, 85% identical in mouse, and <50% identical in ATF5.

Accession nos: NP_001666.2, P18848

Gene ID: 468

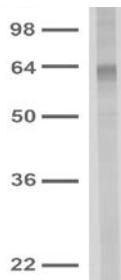
Host Species: Mouse

Antibody Class: IgG2a

Specificity: This antibody recognizes human and rat ATF4.

APPLICATIONS

Immunoblotting: use at 1-5ug/ml. A band of ~60kDa is detected.

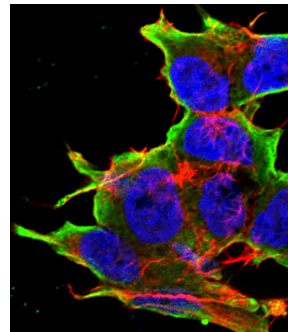


Detection of ATF4 in rat brain lysate with #56583.

These are recommended concentrations.

Endusers should determine optimal concentrations for their application.

Immunofluorescence: use at 10ug/ml.



Detection of ATF4 in neuroblastoma cell line SK-N-BE with #56583 at 10ug/ml: DAPI (blue) nuclear stain, Texas Red F actin stain, ATTO 488 (green) ATF4 stain.

DILUTION INSTRUCTIONS

Dilute in PBS or medium that is identical to that used in the assay system.

STORAGE AND STABILITY

This product is stable for at least one (1) year at -20°C.

For in vitro investigational use only. Not intended for therapeutic or diagnostic procedures.