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ATF4 Antibody (S245)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP6287a

Product Information

Application	WB, E
Primary Accession	Q96AQ3
Other Accession	P18848
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB10931
Antigen Region	220-252

Additional Information

Other Names	Tax-responsive enhancer element B67; ATF4 protein
Target/Specificity	This ATF4 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 220-252 amino acids from human ATF4.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	ATF4 Antibody (S245) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Background

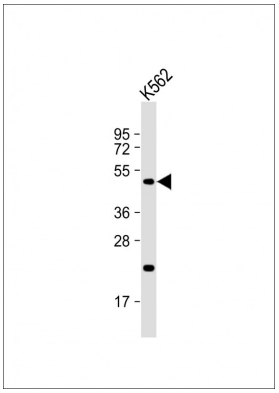
ATF4 is a transcription factor that was originally identified as a widely expressed mammalian DNA binding protein that could bind a tax-responsive enhancer element in the LTR of HTLV-1. The encoded protein was also isolated and characterized as the cAMP-response element binding protein 2 (CREB-2). ATF4 belongs to a family of DNA-binding proteins that includes the AP-1 family of transcription factors, cAMP-response element binding proteins (CREBs) and CREB-like proteins. These transcription factors share a leucine zipper region that is involved in protein-protein interactions, located C-terminal to a stretch of basic amino acids

that functions as a DNA binding domain.

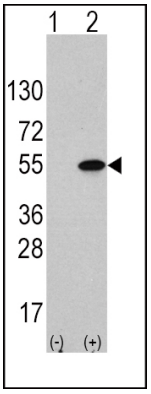
References

Gombart,A.F., J. Leukoc. Biol. 81 (6), 1535-1547 (2007)
Jousse,C., J. Biol. Chem. 282 (21), 15851-15861 (2007)
Kakiuchi,C., Neurosci. Lett. 417 (3), 316-321 (2007)
Marchand,A., J. Biol. Chem. 281 (28), 19124-19133 (2006)

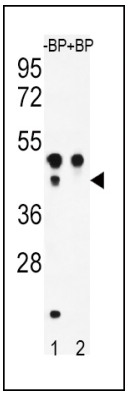
Images



Anti-ATF4 Antibody (S245) at 1:1000 dilution + K562 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 39 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



Western blot analysis of ATF4 (arrow) using rabbit anti-ATF4 Antibody (S245) (Cat. #AP6287a). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the ATF4 gene (Lane 2) (Origene Technologies).



Western blot analysis of ATF4 Antibody (S245) Pab (Cat. #AP6287a) pre-incubated without(lane 1) and with(lane 2) blocking peptide in WiDr cell line lysate. ATF4 Antibody (pS245) (arrow) was detected using the purified Pab.