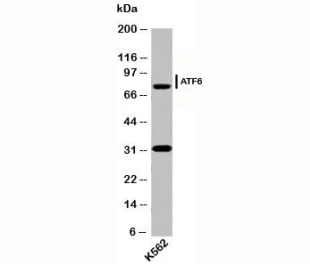
ATF6 Antibody [clone AF6229] (N1111)

Catalog No.	Formulation	Size
N1111-100UG	0.5 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug

Bulk quote request

Availability	2-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	IgG1, kappa
Clone Name	AF6229
Purity	Protein G purified monoclonal antibody
Buffer	1X PBS, pH 7.4
Gene ID	22926
Localization	Cytoplasmic
Applications	Western blot: 2-4ug/ml (2) Immunohistochemistry (FFPE): 5ug/ml (1)
Limitations	This ATF6 antibody is available for research use only.



Western blot testing of human samples with ATF6 antibody (AF6229) at 2ug/ml.
Predicted molecular weight: 75~90kDa.

Description

ER stress can cause the accumulation of unfolded proteins and lead to the activation of the UPR (unfolded proetin response). Cells have developed an intracellular signaling pathway to deal with this stress, and Activating Transcription

Factor 6 (ATF6) is a major transducer of the UPR. Upon activation, ATF6 seperates from GPR78 and is cleaved. The ~50 kD cytosolic portion of ATF6 translocates to the nucleus, transmitting the ER stress signal. In the nucleus, ATF6 activates the transcription of UPR-responsive genes by biniding to their ERSE (ER stress response element) region.

Application Notes

ATF6 is a 670 amino acid protein that migrates in western blot between 70~90 kD due to glycosylation.

1. Staining of formalin-fixed tissues requires boiling tissue sections in 10mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes.

Immunogen

A recombinant protein fragment from the N-terminal region of human ATF6 was used as the immunogen for this antibody.

Storage

Aliquot the antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

Alternate Names

Activating Transcription Factor 6

Copyright © NSJ Bioreagents. All rights reserved.