ATF6 monoclonal antibody (70B1413.1)

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ALX-804-3810	100µg

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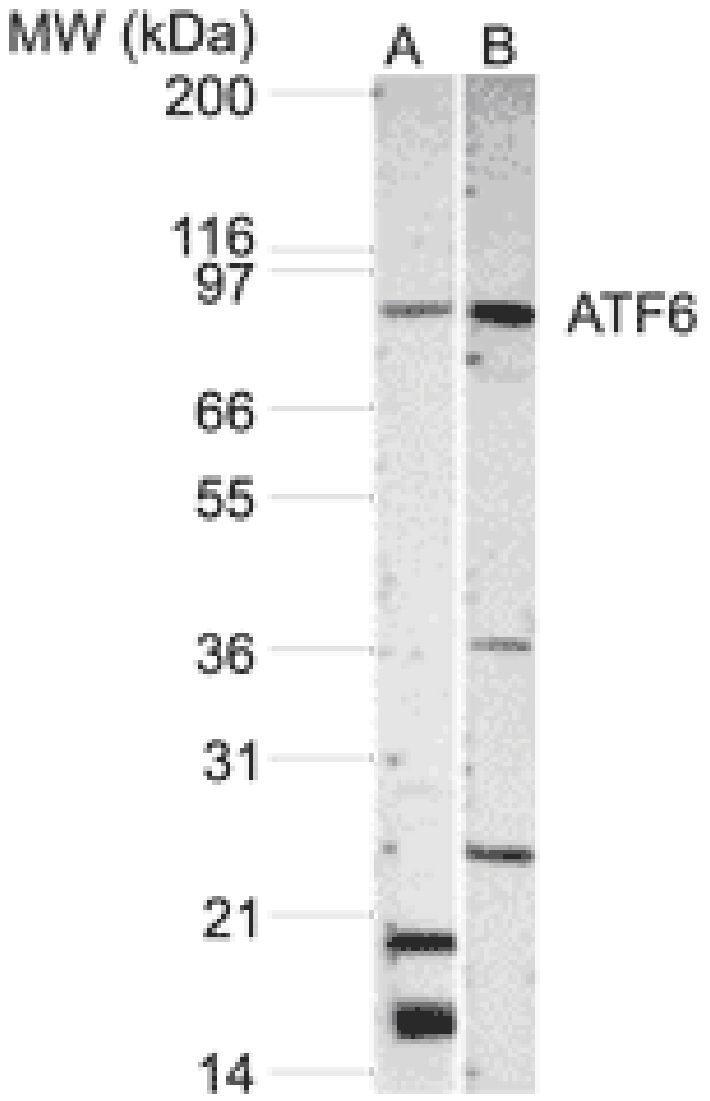


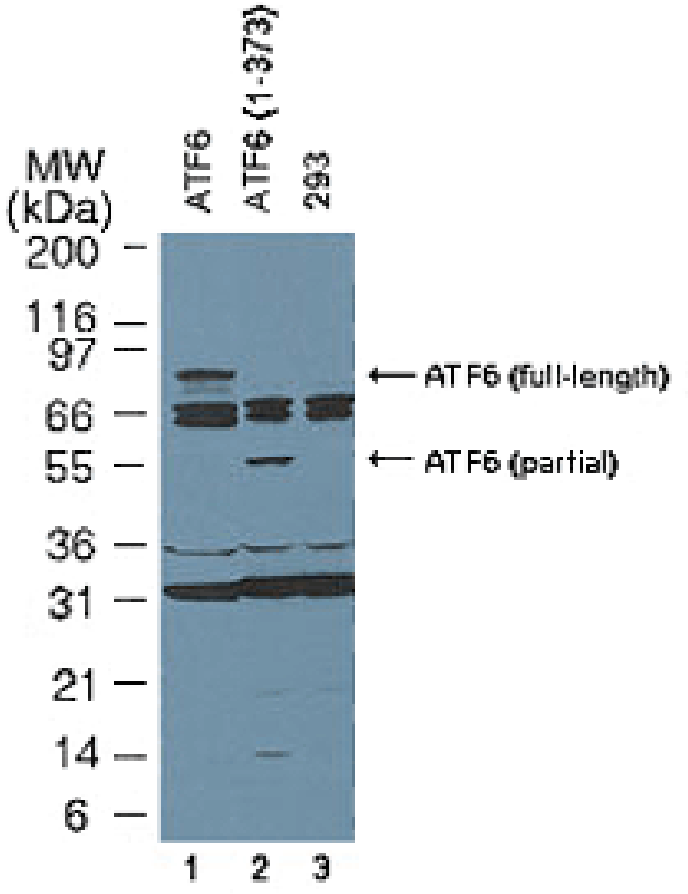
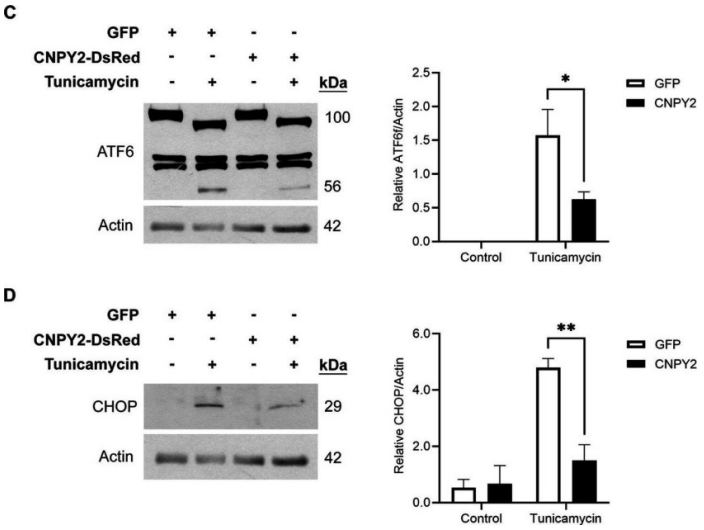


Figure 2: Western blot analysis of ATF6 using MAb to ATF6 (70B1413.1) (Prod. No. ALX-804-381). **Method:** Western blots were probed with 4µg/ml of MAb to ATF6 (70B1413.1), followed by an HRP-conjugated second step and visualized with PicoTect Western Blot Chemiluminescence Substrate. Film was exposed for 1 min. The top arrow corresponds to the ~90kDa form of ATF6 described as full-length in the literature. **Lane 1:** 293 cells transfected with full-length ATF6. **Lane 2:** 293 cells transfected with partial length ATF6 (aa 1-373). **Lane 3:** Untransfected 293 cells. The human full-length and partial length ATF6 plasmids are described in Luo and Lee (2002) [1].



CNPY2 regulates UPR signaling pathways. SH-SY5Y cells were transfected with control plasmid or with CNPY2-Myc-DDK (A,B) or CNPY2-dsRed (C,D) expressing plasmid for 24 h and cells were further treated with 2.5 μg/mL tunicamycin (Tun) for different times followed by immunoblotting as described above using β-actin (42 kDa) or GAPHD (37 kDa) as controls. Left, immunoblots, Right, quantification. Values are means ± SD, n = 4–5. *p < 0.05 or **p < 0.01 for CNPY2 + Tun vs. Tun. (A,B) Tun was added for 6 h. The level of spliced XBP1 (XBP1s) was increased by Tun and was further elevated by CNPY2 expression (A). The level of phosphorylated eIF2α was increased by Tun but was not significantly affected by CNPY2 expression (B). (C) Tun was added for 16 h to study ATF6α signaling. The processing of ATF6α was induced by Tun as shown by the decrease in full length protein (100 kDa) and the appearance of the cleaved ATF6α fragment (56 kDa) in the immunoblots. CNPY2 expression reduced this ATF6α processing. (D) Tun was added for 24 h. The transcription factor CHOP (27 kDa) was induced by Tun and was decreased by CNPY2 expression.

Image collected and cropped by CiteAb under a CC-BY license from the following publication: CNPY2 protects against ER stress and is expressed by corticostriatal neurons together with CTIP2 in a mouse model of Huntington's disease. *Front Mol Neurosci* (2024)

Handling & Storage

Use/Stability	Stable for 6 months when stored at +4°C.
Handling	Avoid freeze/thaw cycles. After opening, prepare aliquots and store at -20°C.
Short Term Storage	+4°C
Long Term Storage	-20°C
Shipping	Blue Ice

Regulatory Status

RUO - Research Use Only

Product Details

Alternative Name	Activating transcription factor 6
Application	ChIP, ICC, IHC (PS), IP, WB
Application Notes	Detects bands of ~90kDa (full length ATF6) and ~50-70kDa (cleaved forms of ATF6) by Western blot.
Clone	70B1413.1
Formulation	Liquid. In PBS containing 0.05% BSA and 0.05% sodium azide.
Host	Mouse
Immunogen	Partial human ATF6 (activating transcription factor 6) containing aa 1-273.
Isotype	IgG1
Purity Detail	Protein G-affinity purified.
Recommendation Dilutions/Conditions	Western Blot (1-5µg/ml)Suggested dilutions/conditions may not be available for all applications.Optimal conditions must be determined individually for each application.
Species Reactivity	Hamster, Human, Mouse, Rabbit, Rat

UniProt ID P18850

Worry-free Guarantee **This antibody is covered by our Worry-Free Guarantee .**

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