

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human ATF4 in direct ELISAs.
Source	Monoclonal Mouse IgG _{2A} Clone # 739441
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human ATF4 Met1-Pro351 Accession # P18848
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunocytochemistry	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

ATF4 is an approximately 38 kDa member of the bzip family of transcription factors. It plays an important role autophagy, the unfolded protein response, and the response to oxygen and nutrient deprivation. These functions are regulated by the dimerization of ATF4 with the leucine zipper protein FOS. ATF4 contains a basic DNA-binding domain (aa 280-300) and a leucine zipper domain (aa 306-334). Human ATF4 shares 87% aa sequence identity with mouse and rat ATF4.

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