

For Research Use Only

CoraLite® Plus 488-conjugated ATF4 Recombinant antibody

Catalog Number: CL488-81798-2



Basic Information

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|----------------------------------------------------------------|----------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| Catalog Number: CL488-81798-2 | GenBank Accession Number: BC022088 | Purification Method: Protein A purification |
| Size: 100ul , Concentration: 1000 ug/ml by Nanodrop; | GeneID (NCBI): 468 | CloneNo.: 230306B5 |
| Source: Rabbit | UNIPROT ID: P18848 | Recommended Dilutions: IF/ICC 1:50-1:500 |
| Isotype: IgG | Full Name: activating transcription factor 4 (tax-responsive enhancer element B67) | Excitation/Emission maxima wavelengths: 493 nm / 522 nm |
| Immunogen Catalog Number: AG1279 | Calculated MW: 39 kDa | |
| | Observed MW: 45-50 kDa | |

Applications

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|---------------------------------------|-----------------------------------------------------------------------|
| Tested Applications: IF/ICC | Positive Controls: IF/ICC : Tunicamycin treated HeLa cells, |
| Species Specificity: human | |

Background Information

ATF4 is a transcription factor, that accumulates predominantly in osteoblasts, where it regulates terminal osteoblast differentiation and bone formation. As a basic leucine-zipper (bZip) transcription factor, ATF4 can regulate amino acid metabolism, cellular redox state, and anti-stress responses. It also regulates age-related and diet-induced obesity and glucose homeostasis in mammals, and has conserved metabolic functions in flies. Due to its location at chromosome 22q13, a region linked to schizophrenia, ATF4 is considered as a positional candidate gene for schizophrenia. Otherwise, since ATF4 is induced by tumour microenvironmental factors, and regulates processes relevant to cancer progression, it might serve as a potential therapeutic target in cancer. This antibody is a mouse monoclonal antibody raised against full length human ATF4 antigen. The antibody recognizes the 45-50 kDa ATF4 protein and its phosphorylated forms (50 kDa).

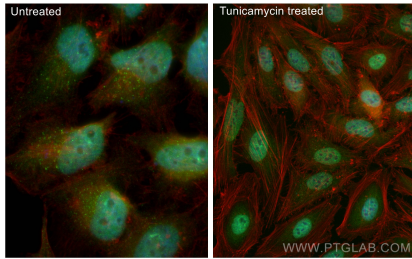
Storage

Storage:
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.
Storage Buffer:
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed Tunicamycin treated HeLa cells using CoraLite® Plus 488 ATF4 antibody (CL488-81798-2, Clone: 230306B5) at dilution of 1:200, CL594-Phalloidin (red).