

Anti-TFEB Antibody (Monoclonal, 31T27)

Catalog Number: M00662

About TFEB

Transcription factor EB is a protein that in humans is encoded by the TFEB gene. TFEB is a master gene for lysosomal biogenesis. It encodes a transcription factor that coordinates expression of lysosomal hydrolases, membrane proteins and genes involved in autophagy. Upon nutrient depletion and under aberrant lysosomal storage conditions such as in lysosomal storage diseases, TFEB translocates from the cytoplasm to the nucleus, resulting in the activation of its target genes. TFEB overexpression in cultured cells induces lysosomal biogenesis, exocytosis and autophagy. Viral-mediated TFEB overexpression in cellular and mouse models of lysosomal storage disorders and in common neurodegenerative diseases such as Huntington, Parkinson and Alzheimer diseases, resulted in intracellular clearance of accumulating molecules and rescue of disease phenotypes. TFEB is activated by PGC1-alpha and promotes reduction of htt aggregation and neurotoxicity in a mouse model of Huntington disease. TFEB overexpression has been found in patients with renal cell carcinoma and pancreatic cancer and was shown to promote tumorigenesis via induction of various oncogenic signals.

Overview

Product Name	Anti-TFEB Antibody (Monoclonal, 31T27)
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-TFEB Antibody (Monoclonal, 31T27) catalog # M00662. Tested in WB applications. This antibody reacts with Human, Mouse, Rat.
Application	WB
Clonality	Monoclonal 31T27
Formulation	Rabbit IgG in stabilizing components, phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
Storage Instructions	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P19484

Technical Details

Immunogen	Recombinant protein within human TFEB aa 303-474.
Form	Liquid
Concentration	500 ug/ml

Purification	Protein A affinity purified.
Suggested Dilutions	Western blot, 1:500-2000

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For Research Use Only. Not for use in diagnostic procedures.