Human TFEB Antibody

Monoclonal Mouse IgG_1 Clone # 954617

Catalog Number: MAB91701

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human TFEB in direct ELISAs and Western blots.
Source	Monoclonal Mouse IgG_1 Clone # 954617
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Human TFEB synthetic peptide Pro384-Ala446 Accession # P19484
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

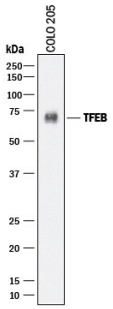
APPLICATIONS

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.*

	Recommended Concentration	Sample
Western Blot	2 µg/mL	See Below

DATA

Western Blot



Detection of Human TFEB by Western Blot. Western blot shows lysates of COLO 205 human colorectal adenocarcinoma cell line. PVDF membrane was probed with 2 µg/mL of Mouse Anti-Human TFEB Monoclonal Antibody (Catalog # MAB91701) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF018). A specific band was detected for TFEB at approximately 70 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

Transcription Factor EB/TFEB binds E-box (5'-CANNTG-3') where it plays a role in T cell activation through expression of CD40L and CLEAR-box (5'-GTCACGTGAC-3') sequences where it promotes expression of lysosomal genes essential for regulation of autophagy. TFEB is localized to the cytoplasm and translocates to the nucleus under aberrant lysosomal storage conditions. Phosphorylation of S211 in an MTORC1 dependent manner sequesters TFEB in the cytoplasm through association with 14-3-3 family proteins. Inhibition of MTORC1 causes dissociation from this complex and rapid accumulation in the nucleus.

bio-techne
bio-techne.com
Global info@bio-techne.com techsupport@bio-techne.com
North America TEL 800 343 7475 Europe | Middle East | Africa TEL +44 (0)1235 529449
China info.cn@bio-techne.com TEL +86 (21) 52380373
Rest of World bio-techne.com/find-us/distributors TEL +1 612 379 2956