Human TMEM87A Antibody

Monoclonal Mouse IgG_{2B} Clone # 772807

Catalog Number: MAB7966

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human TMEM87A in ELISAs and Western Blots
Source	Monoclonal Mouse IgG_{2B} Clone # 772807
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*E. coli*-derived recombinant human TMEM87A Ser22-Asn157 Accession # Q8NBN3
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.

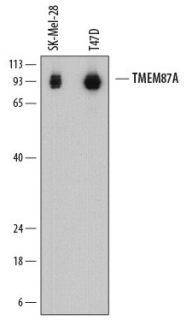
APPLICATIONS

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	0.2 µg/mL	See Below
Flow Cytometry	2.5 µg/10^6 cells	See Below
Simple Western	2 µg/mL	See Below
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

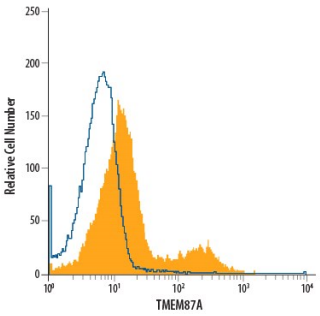
DATA

Western Blot



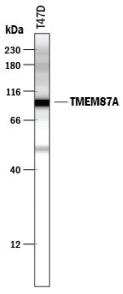
Detection of Human TMEM87A by Western Blot. Western blot shows lysates of SK-Mel-28 human malignant melanoma cell line and T47D human breast cancer cell line. PVDF membrane was probed with 0.2 µg/mL of Mouse Anti-Human TMEM87A Monoclonal Antibody (Catalog # MAB7966) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF018). Specific bands were detected for TMEM87A at approximately 90-95 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

Flow Cytometry



Detection of TMEM-87A in PC-3 Human Cell Line by Flow Cytometry. PC-3 human prostate cancer cell line was stained with Mouse Anti-Human TMEM87A Monoclonal Antibody (Catalog # MAB7966, filled histogram) or isotype control antibody (Catalog # MAB0041, open histogram), followed by Allophycocyanin-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # F0101B).

Simple Western



Detection of Human TMEM87A by Simple Western™. Simple Western lane view shows lysate of T47D human breast cancer cell line, loaded at 0.5 mg/mL. Specific bands were detected for TMEM87A at approximately 98 kDa (as indicated) using 2 µg/mL of Mouse Anti-Human TMEM87A Monoclonal Antibody (Catalog # MAB7966). This experiment was conducted under reducing conditions and using the 12-230 kDa separation system.

PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.5 mg/mL.
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.

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

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BACKGROUND

TMEM87A (Transmembrane protein 87A) is predicted to be a 6-transmembrane, 555 amino acid (aa) glyco- and phospho-protein that is expressed on the cell surface. Its expression in the mammary gland is upregulated when there is a loss of caveolin-1 expression, which may confer susceptibility to breast cancer. Within the region used as an immunogen, human TMEM87A shares 83% aa sequence identity with mouse and rat TMEM87A. A potential isoform of 181 aa diverges C-terminal to aa 169, while another of 494 aa is divergent N-terminal to aa 70.

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