

Product datasheet for **CF505555**

HTF9C (TRMT2A) Mouse Monoclonal Antibody [Clone ID: OTI1C3]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI1C3
Applications:	FC, IF, IHC, WB
Recommended Dilution:	WB 1:200~2000, IHC 1:150, IF 1:100, FLOW 1:100
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human TRMT2A(NP_073564) produced in HEK293T cell.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	68.5 kDa
Gene Name:	tRNA methyltransferase 2 homolog A
Database Link:	NP_073564 Entrez Gene 27037 Human Q8IZ69



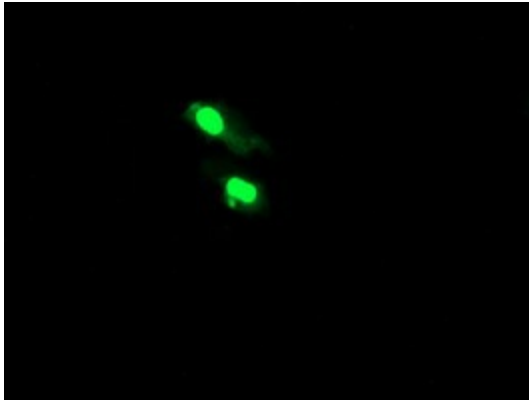
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Background: The protein encoded by this gene is of unknown function. However, it is orthologous to the mouse Trmt2a gene and contains an RNA methyltransferase domain. Expression of this gene varies during the cell cycle, with aberrant expression being a possible biomarker in certain breast cancers. Several transcript variants encoding two different isoforms have been found for this gene. [provided by RefSeq, Apr 2012]

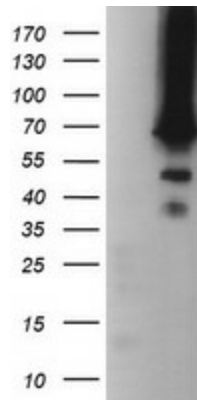
Synonyms: HTF9C

Protein Families: Druggable Genome

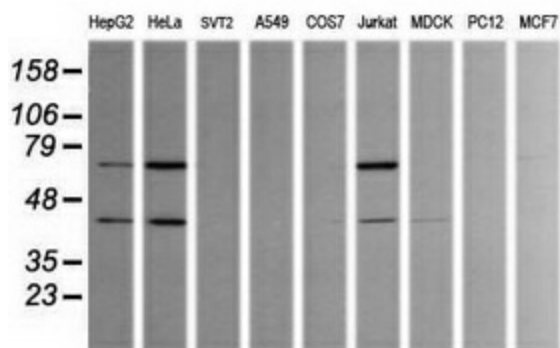
Product images:



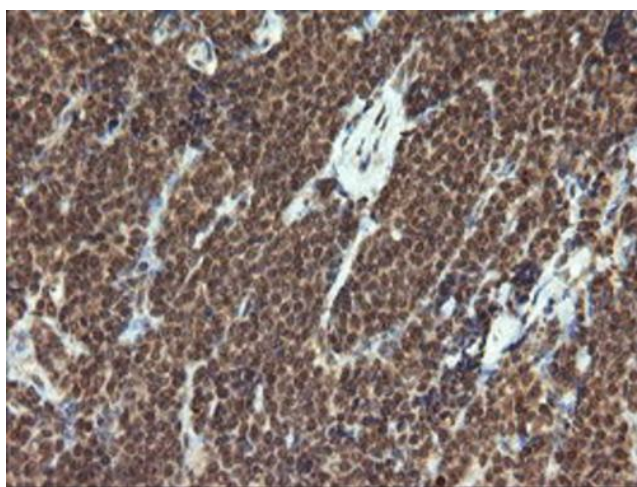
Anti-TRMT2A mouse monoclonal antibody ([TA505555]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY TRMT2A ([RC221181]).



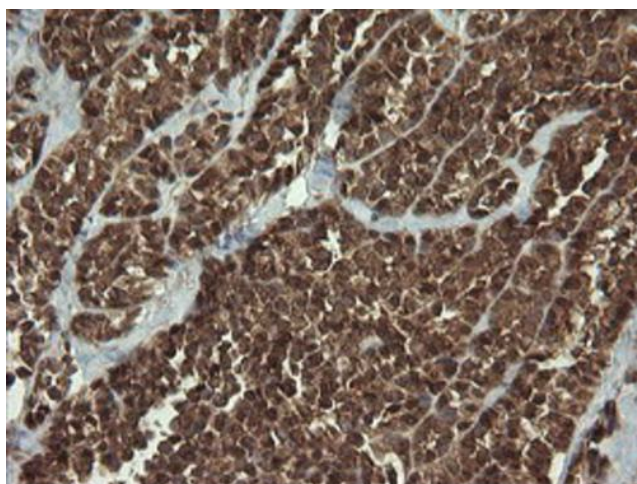
HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY TRMT2A (Cat# [RC221181], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-TRMT2A(Cat# [TA505555]). Positive lysates [LY411594] (100ug) and [LC411594] (20ug) can be purchased separately from OriGene.



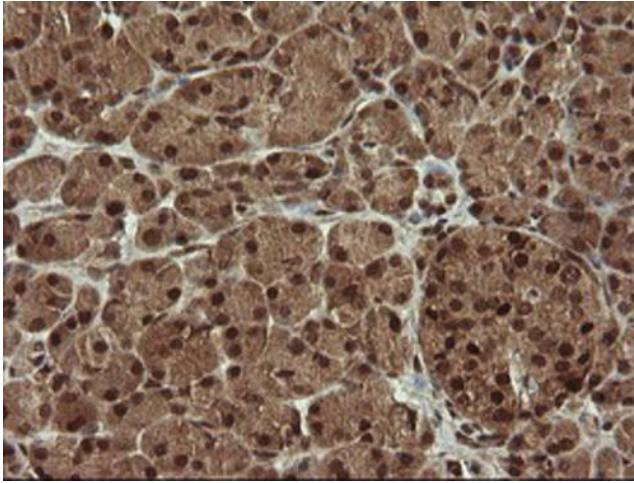
Western blot analysis of extracts (35ug) from 9 different cell lines by using anti-TRMT2A monoclonal antibody (HepG2: human; HeLa: human; SVT2: mouse; A549: human; COS7: monkey; Jurkat: human; MDCK: canine; PC12: rat; MCF7: human).



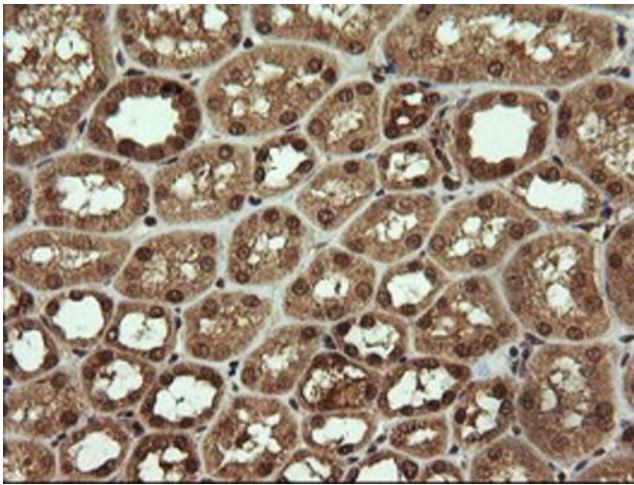
Immunohistochemical staining of paraffin-embedded Human lymphoma tissue using anti-TRMT2A mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



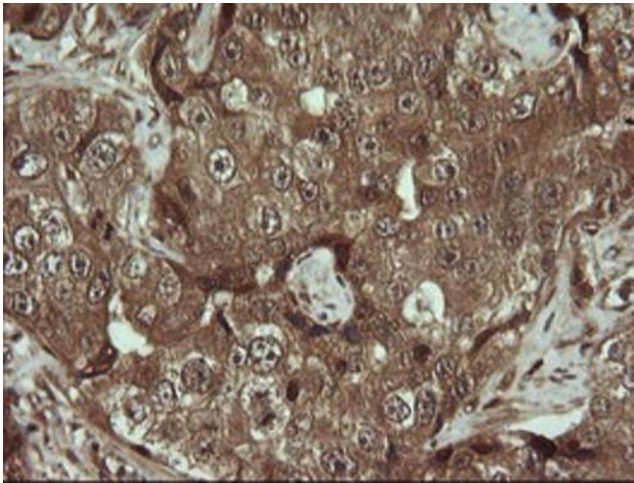
Immunohistochemical staining of paraffin-embedded Carcinoma of Human thyroid tissue using anti-TRMT2A mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



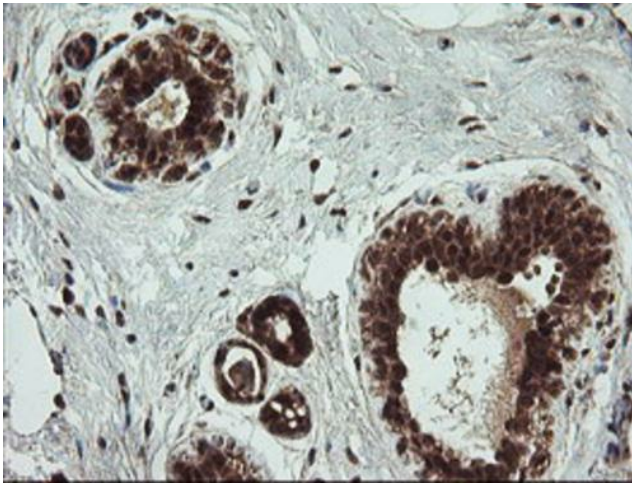
Immunohistochemical staining of paraffin-embedded Human pancreas tissue within the normal limits using anti-TRMT2A mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



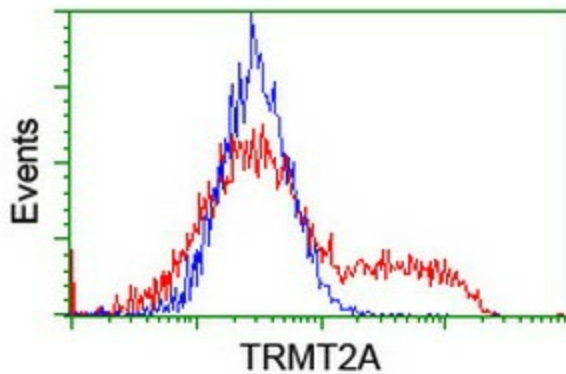
Immunohistochemical staining of paraffin-embedded Human Kidney tissue within the normal limits using anti-TRMT2A mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



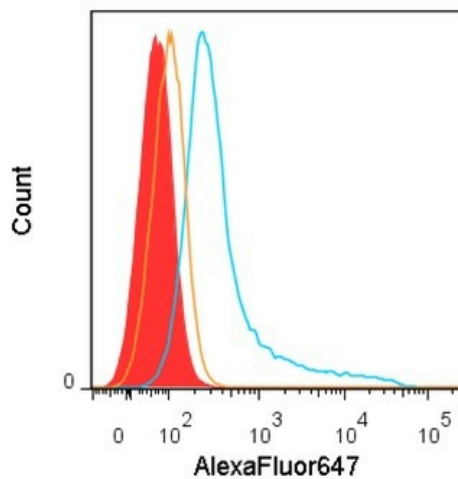
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human breast tissue using anti-TRMT2A mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



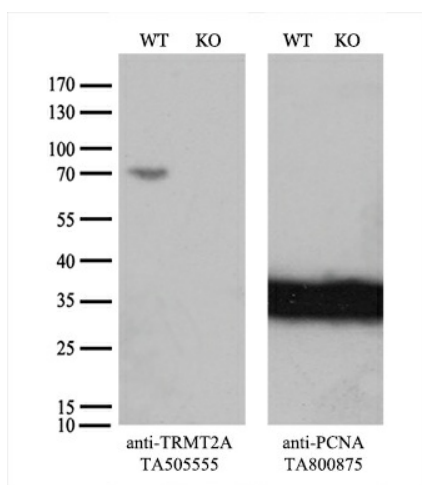
Immunohistochemical staining of paraffin-embedded Human breast tissue within the normal limits using anti-TRMT2A mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



HEK293T cells transfected with either [RC221181] overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-TRMT2A antibody ([TA505555]), and then analyzed by flow cytometry.



Flow cytometry analysis of U2-OS cells. Red: no-color control; Orange: U2-OS stained with [TA505555] (1:100) and a secondary with AlexaFluor647; Blue: U2-OS over-expressing the target and stained with the same antibodies. Courtesy: Dr. K. Wei from Stanford University.



Equivalent amounts of cell lysates (10 ug per lane) of wild-type HeLa cells (WT, Cat# LC810HELA) and TRMT2A-Knockout HeLa cells (KO, Cat# [LC833845]) were separated by SDS-PAGE and immunoblotted with anti-TRMT2A monoclonal antibody [TA505555] (1:500). Then the blotted membrane was stripped and reprobed with anti-PCNA antibody as a loading control.