

Anti-Methyltransferase-like 26 Antibody

ER1803-45



Product Type:	Rabbit polyclonal IgG, primary antibodies
Species reactivity:	Human, Mouse, Rat
Applications:	WB, IF-Cell, IHC-P, FC
Molecular Wt:	Predicted band size: 22.5 kDa

Description: METTL26, previously designated C16orf13, is a protein-coding gene for Methyltransferase Like 26, also known as JFP2. Though the function of this gene is unknown, various data have revealed that it is expressed at high levels in various cancerous tissues. Underexpression of this gene has also been linked to disease consequences in humans. The human expression profile from NCBI UniGene suggests that this gene has widespread expression in many different tissues in the body. This expression profile suggests that this gene is a “housekeeping gene,” one that has important effects in all cells, regardless of tissue. The highest levels of expression appear to be in the adrenal gland, lung, and parathyroid. There are many additional sites besides these highest three where the gene is expressed in high levels. There seems to be no real similarity in the few tissues where the gene is not expressed. This expression data does not seem to give any clues into specific function, except to suggest that the gene is involved in a “housekeeping” function of nearly all cells. The protein that this gene codes for is known as UPF0585, where UPF signals unknown protein function. There are five isoforms of this protein, corresponding to the five splice variants of the gene. The isoforms are named a, b, c, d, and g. As mentioned above, the conserved domain detected in a BLAST search of this amino acid sequence is a methyltransferase superfamily.

Immunogen:	Synthetic peptide within Human Methyltransferase-like 26 aa 33-82 / 204.
Positive control:	Mouse kidney tissue, 293T, MCF-7, SH-SY-5Y, human lung tissue, human thyroid cancer tissue, mouse small intestine tissue, mouse heart tissue.
Subcellular location:	Cytoplasm.
Database links:	SwissProt: Q96S19 Human Q9DCS2 Mouse Q497C3 Rat
Recommended Dilutions:	
WB	1:500
IF-Cell	1:50-1:200
IHC-P	1:50-1:200
FC	1:50-1:100
Storage Buffer:	1*PBS (pH7.4), 0.2% BSA, 50% Glycerol. Preservative: 0.05% Sodium Azide.
Storage Instruction:	Store at +4℃ after thawing. Aliquot store at -20℃. Avoid repeated freeze / thaw cycles.
Purity:	Immunogen affinity purified.

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Orders:0086-571-88062880

Technical:0086-571-89986345

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Images

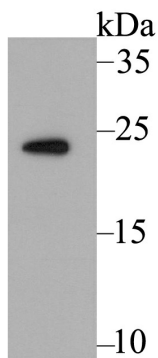


Fig1: Western blot analysis of Methyltransferase-like 26 on mouse kidney tissue lysate using anti-Methyltransferase-like 26 antibody at 1/500 dilution.

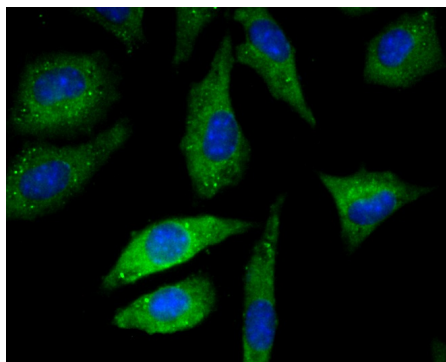


Fig2: ICC staining Methyltransferase-like 26 in SH-SY-5Y cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

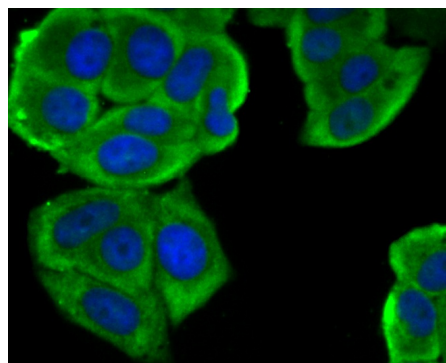


Fig3: ICC staining Methyltransferase-like 26 in MCF-7 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

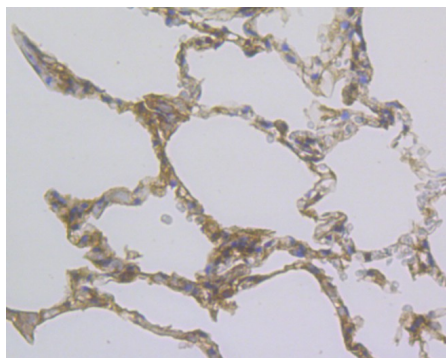


Fig4: Immunohistochemical analysis of paraffin-embedded human lung tissue using anti-Methyltransferase-like 26 antibody. Counter stained with hematoxylin.

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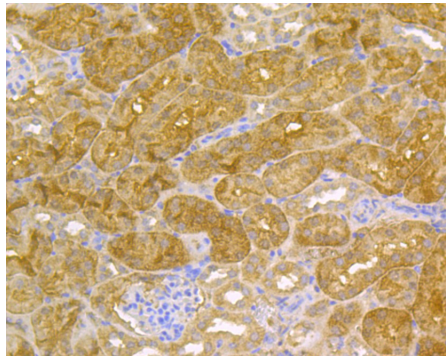


Fig5: Immunohistochemical analysis of paraffin-embedded mouse kidney tissue using anti-Methyltransferase-like 26 antibody. Counter stained with hematoxylin.

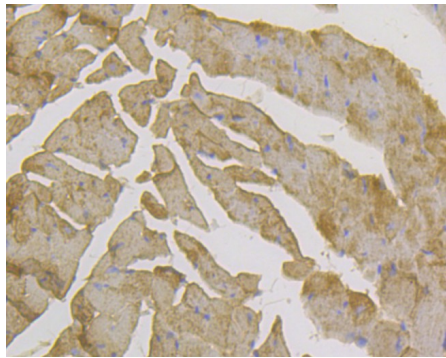


Fig6: Immunohistochemical analysis of paraffin-embedded mouse heart tissue using anti-Methyltransferase-like 26 antibody. Counter stained with hematoxylin.

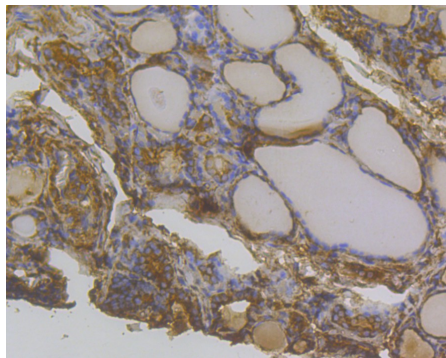


Fig7: Immunohistochemical analysis of paraffin-embedded human thyroid cancer tissue using anti-Methyltransferase-like 26 antibody. Counter stained with hematoxylin.

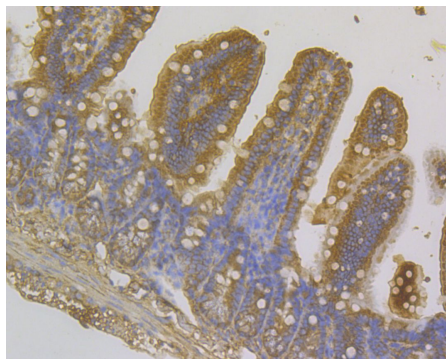


Fig8: Immunohistochemical analysis of paraffin-embedded mouse small intestine tissue using anti-Methyltransferase-like 26 antibody. Counter stained with hematoxylin.

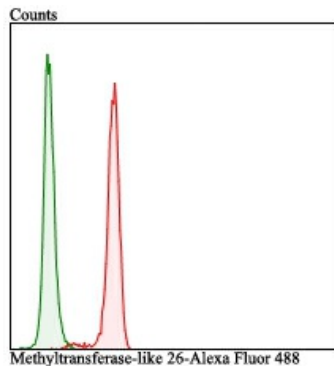


Fig9: Flow cytometric analysis of SH-SY-5Y cells with Methyltransferase-like 26 antibody at 1/100 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; green). Alexa Fluor 488-conjugated goat anti-rabbit IgG was used as the secondary antibody.

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. Oh JH et al. Transcriptome analysis of human gastric cancer. *Mamm Genome* 16(12):942-54 (2005).
2. The MGC Project Team. The status, quality, and expansion of the NIH full-length cDNA project: the Mammalian Gene Collection (MGC). *Genome Res.*14:2121-2127 (2004).

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