abcam

Product datasheet

Anti-NNMT antibody [OTI3D8] ab119758

KO VALIDATED

2 Abreviews 12 References 11 Images

Overview

Product name	Anti-NNMT antibody [OTI3D8]
Description	Mouse monoclonal [OTI3D8] to NNMT
Host species	Mouse
Tested applications	**Suitable for:** WB, IHC-P, ICC/IF, Flow Cyt (Intra)
Species reactivity	**Reacts with:** Mouse, Human, Recombinant fragment
Immunogen	Recombinant full length Human NNMT, produced in HEK293T cells (NP_006160).
Positive control	WB: HeLa, A549, HepG2 and SVT2 cell lysates; HEK293T cell lysate transfected with pCMV6-ENTRY NNMT cDNA. IHC-P: Human Liver, Pancreas, Thyroid carcinoma, Endometrium, Endometrium adenocarcinoma and Prostate tissues. ICC/IF: COS7 cells transiently transfected by pCMV6-ENTRY NNMT. Flow Cyt (Intra): Jurkat cells.
General notes	The clone number has been updated from 3D8 to OTI3D8, both clone numbers name the same clone. This product was changed from ascites to tissue culture supernatant on 29th May 2018. Please note that the dilutions may need to be adjusted accordingly. If you have any questions, please do not hesitate to contact our scientific support team The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.
Storage buffer	pH: 7.30 Preservative: 0.02% Sodium azide Constituents: 48% PBS, 1% BSA, 50% Glycerol

Purity	Protein A purified
Purification notes	ab119758 is purified from TCS by affinity chromatography.
Clonality	Monoclonal
Clone number	OTI3D8
Isotype	IgG2b

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab119758 in the following tested applications.

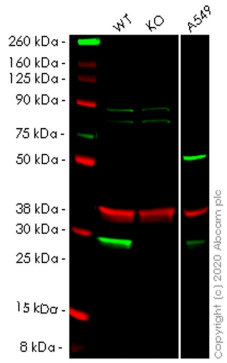
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB	★★★★★ **(2)**	1/500 - 1/2000. Predicted molecular weight: 30 kDa.
IHC-P		1/150.
ICC/IF		1/100.
Flow Cyt (Intra)		1/100. **ab170192** - Mouse monoclonal IgG2b, is suitable for use as an isotype control with this antibody.

Target

Function	Catalyzes the N-methylation of nicotinamide and other pyridines to form pyridinium ions. This activity is important for biotransformation of many drugs and xenobiotic compounds.
Tissue specificity	Predominantly expressed in the liver. A lower expression is seen in the kidney, lung, skeletal muscle, placenta and heart. Not detected in the brain or pancreas.
Sequence similarities	Belongs to the NNMT/PNMT/TEMT family.
Cellular localization	Cytoplasm.

Images



Western blot - Anti-NNMT antibody [OTl3D8] (ab119758)

All lanes : Anti-NNMT antibody [OTl3D8] (ab119758) at 1/500 dilution

Lane 1 : Wild-type HeLa cell lysate
Lane 2 : NNMT knockout HeLa cell lysate
Lane 3 : A549 cell lysate

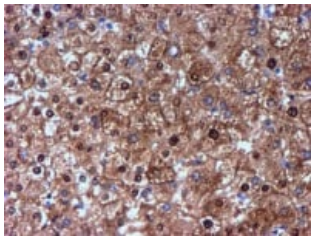
Lysates/proteins at 20 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG H&L (IRDye® 680RD) preadsorbed (**ab216777**) at 1/10000 dilution

Predicted band size: 30 kDa
Observed band size: 30 kDa

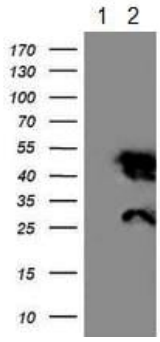
Lanes 1-3: Merged signal (red and green). Green - ab119758 observed at 30 kDa. Red - loading control **ab181602** observed at 36 kDa.

ab119758 Anti-NNMT antibody [OTl3D8] was shown to specifically react with NNMT in wild-type HeLa cells. Loss of signal was observed when knockout cell line **ab265700** (knockout cell lysate **ab258537**) was used. Wild-type and NNMT knockout samples were subjected to SDS-PAGE. ab119758 and Anti-GAPDH antibody[EPR16891] - Loading Control (**ab181602**) were incubated at room temperature for 2.5 hours at 1 in 500 dilution and 1 in 20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 680RD) preadsorbed (**ab216777**) and Goat anti-Mouse IgG H&L (IRDye® 800CW) preadsorbed (**ab216772**) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-NNMT antibody [OTI3D8] (ab119758)

ab119758 at 1/150 dilution, staining NNMT in paraffin-embedded Human liver tissue by Immunohistochemistry.



Western blot - Anti-NNMT antibody [OTI3D8] (ab119758)

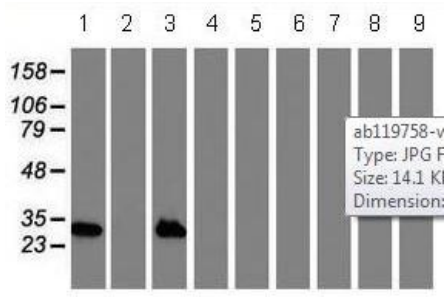
All lanes : Anti-NNMT antibody [OTI3D8] (ab119758) at 1/500 dilution

Lane 1 : HEK293T cell lysate transfected with pCMV6-ENTRY control cDNA
Lane 2 : HEK293T cell lysate transfected with pCMV6-ENTRY NNMT cDNA

Lysates/proteins at 5 µg per lane.

Predicted band size: 30 kDa

HEK293T cell lysates were generated from transient transfection of the cDNA clone (RC200641)



Western blot - Anti-NNMT antibody [OTI3D8] (ab119758)

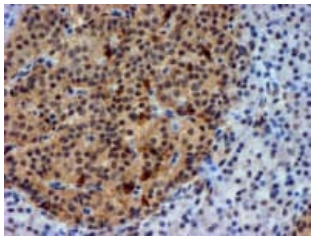
All lanes : Anti-NNMT antibody [OTI3D8] (ab119758) at 1/500 dilution

Lane 1 : HepG2 cell extracts
Lane 2 : HeLa cell extracts
Lane 3 : SVT2 cell extracts
Lane 4 : A549 cell extracts
Lane 5 : COS7 cell extracts
Lane 6 : Jurkat cell extracts
Lane 7 : MDCK cell extracts
Lane 8 : PC12 cell extracts
Lane 9 : MCF7 cell extracts

Lysates/proteins at 35 µg per lane.

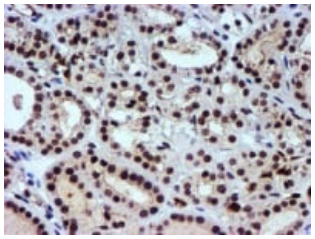
Predicted band size: 30 kDa

HEK293T cell lysates were generated from transient transfection of the cDNA clone (RC200641)



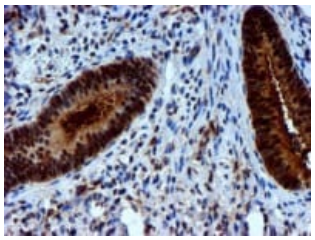
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-NNMT antibody [OTI3D8] (ab119758)

ab119758 at 1/150 dilution, staining NNMT in paraffin-embedded Human pancreas tissue by Immunohistochemistry.



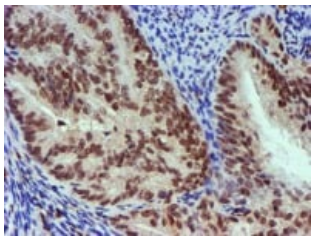
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-NNMT antibody [OTI3D8] (ab119758)

ab119758 at 1/150 dilution, staining NNMT in paraffin-embedded Human thyroid carcinoma tissue by Immunohistochemistry.



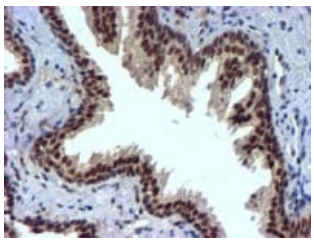
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-NNMT antibody [OTI3D8] (ab119758)

ab119758 at 1/150 dilution, staining NNMT in paraffin-embedded Human endometrium tissue by Immunohistochemistry.



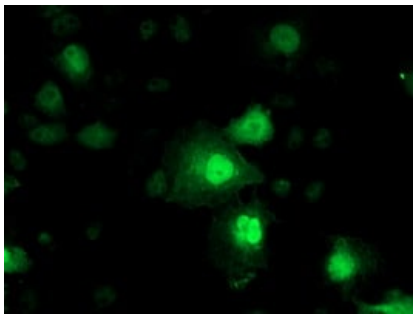
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-NNMT antibody [OTI3D8] (ab119758)

ab119758 at 1/150 dilution, staining NNMT in paraffin-embedded Human endometrium adenocarcinoma tissue by Immunohistochemistry.



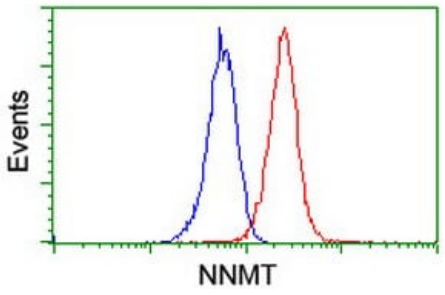
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-NNMT antibody [OTI3D8] (ab119758)

ab119758 at 1/150 dilution, staining NNMT in paraffin-embedded Human prostate tissue by Immunohistochemistry.



Immunocytochemistry/ Immunofluorescence - Anti-NNMT antibody [OTI3D8] (ab119758)

ab119758, at 1/100 dilution staining NNMT, in COS7 cells transiently transfected by pCMV6-ENTRY NNMT, by Immunofluorescence



Flow Cytometry (Intracellular) - Anti-NNMT antibody [OTI3D8] (ab119758)

ab119758 at 1/100 dilution staining NNMT in Jurkat cells by Flow Cytometry (Intracellular) (Red) compared to a nonspecific negative control antibody (Blue).

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