

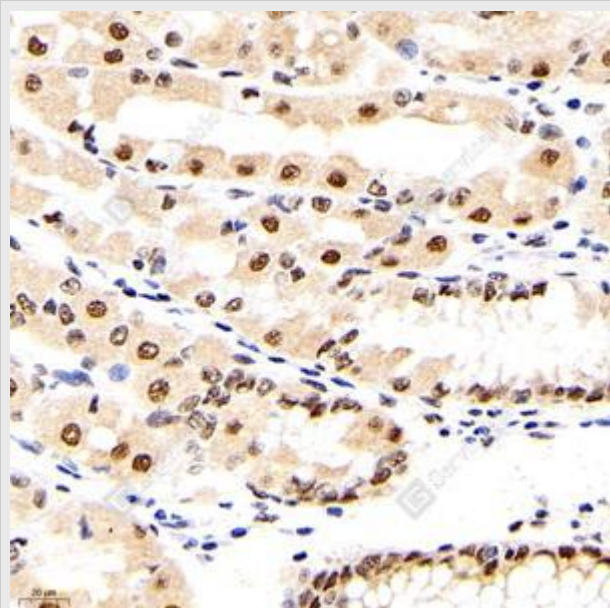
Anti-Dnmt1 Rabbit pAb, Primary Antibody

Product Information

Protein full name	DNA (cytosine-5)-methyltransferase 1
Synonyms	DNA (cytosine-5)-methyltransferase 1, DNA methyltransferase 1, DNMT1, ADCADN, AIM, CXXC9, DNMT, HSN1E, MCMT, m.HsaI
Uniprot ID	P13864
Immunogen	KLH conjugated Synthetic peptide corresponding to Mouse Dnmt1
Isotype	IgG
Purity	Affinity purification
Subcellular location	Nucleus

Applications

Applications	Species	Dilution	Positive Tissue
IHC/IF	Human	1: 500-1: 2000	colon, kidney, lung



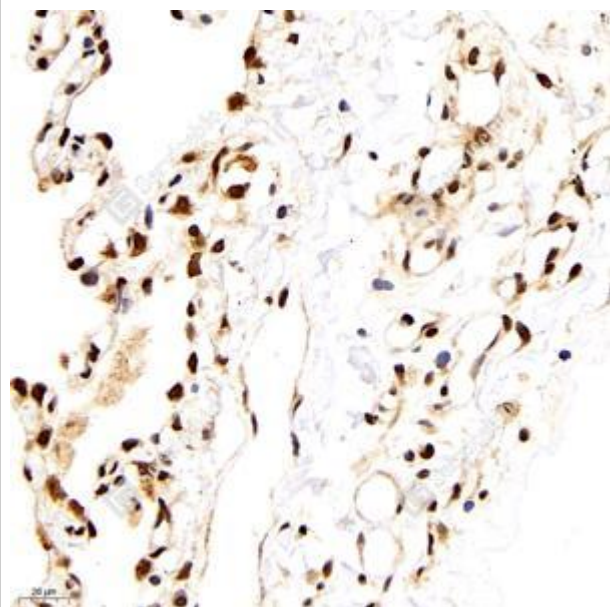
IHC analysis of Dnmt1(GB11328).

Sample: Human colon, 4% PFA (G1101) 12-24h.

Antigen retrieval: Citrate buffer (pH 6.0) (G1201), 98°C, 20 min.

Primary antibody: 1: 1000, 4°C overnight.

Secondary antibody: HRP conjugated Goat Anti-Rabbit IgG (H+L) (GB23303), 1: 200, RT, 1h.



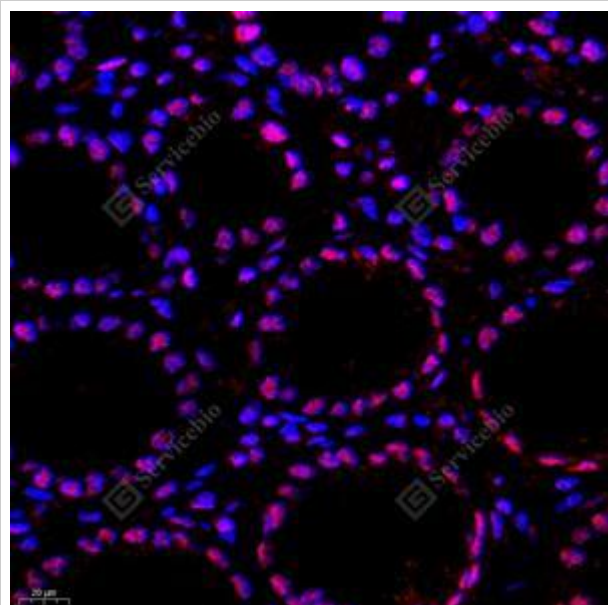
IHC analysis of Dnmt1(GB11328).

Sample: Human lung, 4% PFA (G1101) 12-24h.

Antigen retrieval: Citrate buffer (pH 6.0) (G1201), 98°C, 20 min.

Primary antibody: 1: 1000, 4°C overnight.

Secondary antibody: HRP conjugated Goat Anti-Rabbit IgG (H+L) (GB23303), 1: 200, RT, 1h.



IF analysis of Dnmt1(GB11328)red.

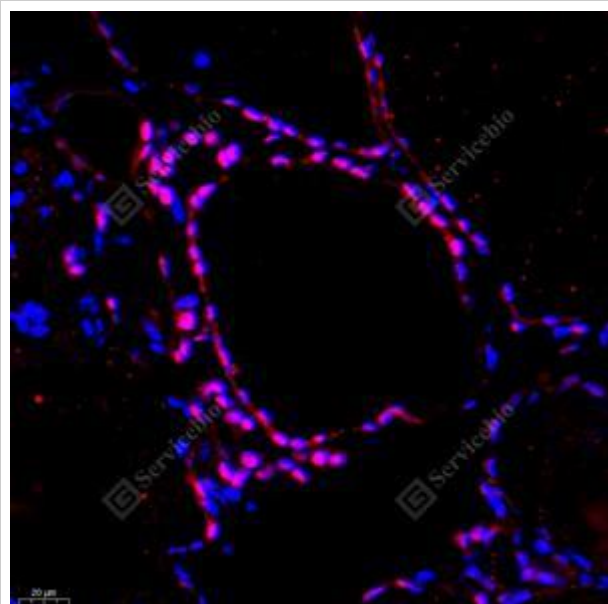
Sample: Human stomach, 4% PFA (G1101) 12-24h.

Antigen retrieval: Tris-EDTA buffer (pH 9.0) (G1203), 98°C, 20min.

Blocking buffer: 3% BSA (GC305010) in PBS, RT, 30min.

Primary antibody: 1: 500, 4°C overnight.

Secondary antibody: Cy3 conjugated Goat Anti-Rabbit IgG (H+L) (GB21303), 1: 300, RT, 1h.



IF analysis of Dnmt1(GB11328)red.

Sample: Human thyroid gland, 4% PFA (G1101) 12-24h.

Antigen retrieval: Tris-EDTA buffer (pH 9.0) (G1203), 98°C, 20min.

Blocking buffer: 3% BSA (GC305010) in PBS, RT, 30min.

Primary antibody: 1: 500, 4°C overnight.

Secondary antibody: Cy3 conjugated Goat Anti-Rabbit IgG (H+L) (GB21303), 1: 300, RT, 1h.

Background

Methylates CpG residues. Preferentially methylates hemimethylated DNA. Associates with DNA replication sites in S phase maintaining the methylation pattern in the newly synthesized strand, that is essential for epigenetic inheritance. Associates with chromatin during G2 and M phases to maintain DNA methylation independently of replication. It is responsible for maintaining methylation patterns established in development. DNA methylation is coordinated with methylation of histones. Mediates transcriptional repression by direct binding to HDAC2.

Storage

Storage	Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Storage Buffer	PBS with 0.15% ProClin300, 100 µg/mL BSA and 50% glycerol.

NOTE:

- 1.This product is intended for research only.
- 2.This product is recommended to dilute with the Primary Antibody Dilution Buffer ([G2025](#)) .

For Research Only

