10320 Camino Santa Fe, Suite G
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Tel: 858.875.1900 Fax: 858.875.1999

MTR Polyclonal Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP56887

Specification

MTR Polyclonal Antibody - Product Information

Application	**WB, IHC-P**
Primary Accession	Q99707
Reactivity	**Rat, Pig, Dog, Bovine**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**140527**

MTR Polyclonal Antibody - Additional Information

Gene ID 4548

Other Names
Methionine synthase, MS, 2.1.1.13, 5-methyltetrahydrofolate--homocysteine methyltransferase, Cobalamin-dependent methionine synthase, Vitamin-B12 dependent methionine synthase, MTR (HGNC:7468)

Format
0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

Storage
Store at -20 ℃ for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 ℃.

MTR Polyclonal Antibody - Protein Information

Name MTR {ECO:0000303|PubMed:27771510, ECO:0000312|HGNC:HGNC:7468}

Function
Catalyzes the transfer of a methyl group from methylcob(III)alamin (MeCbl) to homocysteine, yielding enzyme-bound cob(I)alamin and methionine in the cytosol (PubMed:16769880, PubMed:17288554, PubMed:27771510). MeCbl is an active form of cobalamin (vitamin B12) used as a cofactor for methionine biosynthesis. Cob(I)alamin form is regenerated to MeCbl by a transfer of a methyl group from 5-methyltetrahydrofolate (PubMed:16769880, PubMed:17288554, PubMed:27771510). The processing of cobalamin in the cytosol occurs in a multiprotein complex composed of at least MMACHC, MMADHC, MTRR (methionine synthase reductase) and MTR which may contribute to shuttle safely and efficiently cobalamin towards MTR

in order to produce methionine (PubMed:16769880, PubMed:27771510).

Cellular Location
Cytoplasm.

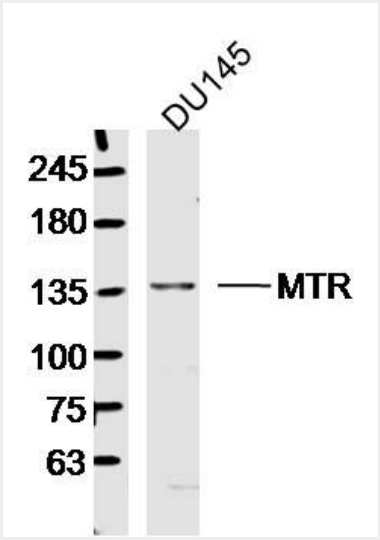
Tissue Location
Widely expressed. Expressed at the highest levels in pancreas, heart, brain, skeletal muscle and placenta (PubMed:8968735, PubMed:8968737). Expressed at lower levels in lung, liver and kidney (PubMed:8968735, PubMed:8968737)

MTR Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

MTR Polyclonal Antibody - Images



Sample: DU145 Cell (Human) Lysate at 40 ug
Primary: Anti-MTR (bs-17892R) at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 140 kD
Observed band size: 140 kD

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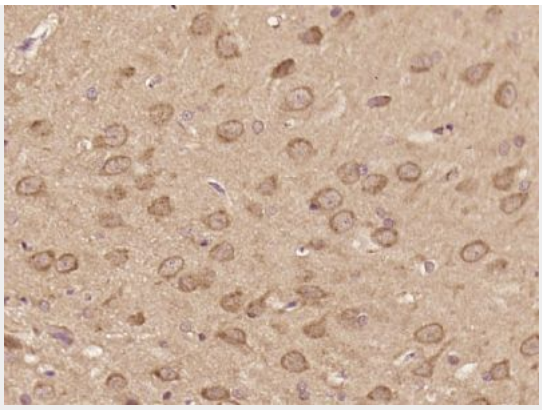
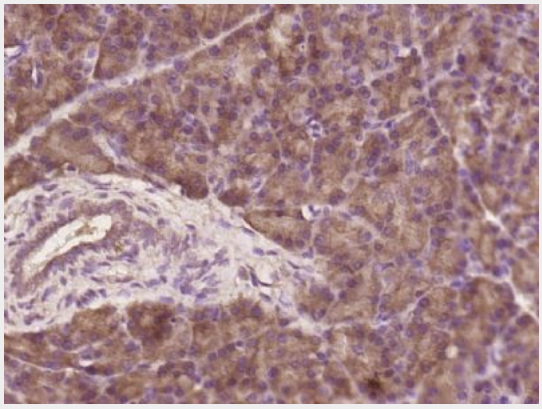


Paraformaldehyde-fixed, paraffin embedded (rat brain tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (MTR) Polyclonal Antibody, Unconjugated (bs-17892R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Paraformaldehyde-fixed, paraffin embedded (rat pancreas tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (MTR) Polyclonal Antibody, Unconjugated (bs-17892R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.