For Research Use Only

MTHFD2 Monoclonal antibody, PBS Only



Purification Method:

Protein A purification

CloneNo.:

1B4B6

Catalog Number: 68524-1-PBS

Basic Information

Catalog Number:

68524-1-PBS

100ug, Concentration: 1 mg/ml by

Nanodrop:

Mouse Isotype: lgG2a

Immunogen Catalog Number:

AG33605

GenBank Accession Number:

BC017054 GeneID (NCBI):

UNIPROT ID:

P13995 Full Name:

methyl enete trahydro fol ate

dehydrogenase (NADP+ dependent) 2,

methenyl tetra hydrofolatecyclohydrolase

Calculated MW: 350 aa, 38 kDa Observed MW: 33-38 kDa

Applications

Tested Applications: WB, IHC, Indirect ELISA Species Specificity: Human, Mouse

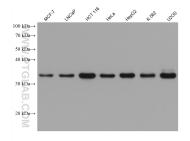
Background Information

Methylenetetrahydrofolate dehydrogenase 2 (MTHFD2) is a folate-coupled mitochondrial metabolic enzyme characterized by methylenetetrahydrofolate dehydrogenase and cyclohydrolase activity. It was demonstrated that suppression of MTHFD2 inhibits methylation reactions, decreases protein synthesis and disrupts redox homeostasis, which may ultimately result in significant changes in cellular metabolic phenotype. MTHFD2 is reported to be upregulated in various tumours, such as lung adenocarcinoma (PMID: 34121323) and breast cancer (PMID: 34007312).

Storage

Storage: Store at -80°C. Storage Buffer: PBS Only

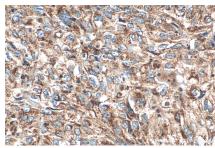
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 68524-1-lg (MTHFD2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 68524-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffinembedded human lung cancer tissue slide using 68524-1-lg (MTHFD2 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 68524-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffinembedded human lung cancer tissue slide using 68524-1-1g (MTHFD2 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 68524-1-PBS in a different storage buffer formulation.