NME1 Conjugated Antibody

Catalog No: #C32049



 Package Size:
 #C32049-AF350 100ul
 #C32049-AF405 100ul
 #C32049-AF488 100ul

 #C32049-AF555 100ul
 #C32049-AF594 100ul
 #C32049-AF647 100ul

 #C32049-AF680 100ul
 #C32049-AF750 100ul
 #C32049-Biotin 100ul

Orders: order@signalwayantibody.com Support: tech@signalwayantibody.com

Description

| Product Name | NME1 Conjugated Antibody |
|-----------------------|---|
| Host Species | Rabbit |
| Clonality | Polyclonal |
| Species Reactivity | Hu Ms Rt |
| Specificity | The antibody detects endogenous level of total NME1 protein. |
| Immunogen Description | A synthetic peptide of human NME1. |
| Conjugates | Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750 |
| Other Names | NME1;AWD;GAAD;NB;NBS |
| Accession No. | Swiss-Prot#:P15531NCBI Gene ID:4830 |
| Uniprot | P15531 |
| GeneID | 4830; |
| Excitation Emission | AF350: 346nm/442nm |
| | AF405: 401nm/421nm |
| | AF488: 493nm/519nm |
| | AF555: 555nm/565nm |
| | AF594: 591nm/614nm |
| | AF647: 651nm/667nm |
| | AF680: 679nm/702nm |
| | AF750: 749nm/775nm |
| Calculated MW | 17 |
| Formulation | 0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide |
| Storage | Store at 4°C in dark for 6 months |
| | |

Application Details

Suggested Dilution:

| AF350 conjugated: most applications: 1: 50 - 1: 250 | | |
|---|--|--|
| AF405 conjugated: most applications: 1: 50 - 1: 250 | | |
| AF488 conjugated: most applications: 1: 50 - 1: 250 | | |
| AF555 conjugated: most applications: 1: 50 - 1: 250 | | |
| AF594 conjugated: most applications: 1: 50 - 1: 250 | | |
| AF647 conjugated: most applications: 1: 50 - 1: 250 | | |
| AF680 conjugated: most applications: 1: 50 - 1: 250 | | |
| AF750 conjugated: most applications: 1: 50 - 1: 250 | | |
| Biotin conjugated: working with enzyme-conjugated streptavidin, most applications: 1: 50 - 1: 1,000 | | |

Antibodies were purified by affinity purification using immunogen.

Background

The NDK/NME/NM23 kinase family (encoded by the NME gene family) consists of at least eight distinct proteins that exhibit different cellular localization (1). Members of this group inhibit metastasis in a variety of tumor cell types (2). All NDK/NME/NM23 proteins possess nucleoside diphosphatase kinase (NDK) activity and catalyze the phosphorylation of nucleoside diphosphate to the corresponding nucleoside triphosphate to regulate a diverse array of cellular events (3). At least four classes of NDK biochemical activities have been described, including protein-protein interactions (4-6), regulation of GTP-binding protein function (7-9), DNA-associated activities (10,11), and histidine-dependent protein phosphotransferase activity (12). NDK/NME proteins participate in the regulation of a broad spectrum of cellular responses, including development, differentiation, proliferation, endocytosis, and apoptosis (13). Because of its role in metastasis suppression and oncogenesis, NDKA (NME1/NM23-H1) has been widely studied (14). NDKA (NM23-H1) and NDKB (NM23-H2) are encoded by adjacent NME1 and NME2 genes and share 90% sequence identity. Two serine residues (Ser122 and Ser144) on NDKA/NM23-H1 can be phosphorylated by AMPKα1, but only phosphorylation at Ser122 determines whether NDKA channels ATP to AMPKα1. This regulates AMPKα1 activity towards ACC1, an important regulator of fatty acid metabolism (15). Mutation of NDKB/NM23-H2 at Ser122 (S122P) in melanoma cells results in altered phosphoryl transfer activity (16).

Note: This product is for in vitro research use only