## 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