

Recombinant NME2 / nm23-H2 / NDPK-B (Suppressor of Metastasis) Antibody

Mouse Monoclonal Antibody [Clone rNME2/13659]

Catalog No	Format	Size
4831-MSM12-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
4831-MSM12-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
4831-MSM12-P1ABX	Purified Ab WITHOUT BSA or Azide at 1.0mg/ml	100 ug

Applications	Tested Dillution	Note
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes
Western Blot (WB)	2-4ug/ml	

Product Details

Clone	rNME2/13659
Immunogen	Recombinant fragment (around aa1-152) of the human Nucleoside Diphosphate Kinase B (NDPK-B) (nm23-H2) protein (exact sequence is proprietary)
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG2a / Kappa
Mol. Weight of Antigen	17.3kDa
Cellular Localization	Cell projection, Cytoplasm, Lamellipodium, Nucleus, Perinuclear region, Ruffle
Species Reactivity	Human
Positive Control	Ubiquitously expressed

*Optimal dilution for a specific application should be determined.

Product Images for Recombinant NME2 / nm23-H2 / NDPK-B (Suppressor of Metastasis) Antibody

Specificity & Comments

Major role in the synthesis of nucleoside triphosphates other than ATP. The ATP gamma phosphate is transferred to the NDP beta phosphate via a ping-pong mechanism, using a phosphorylated active-site intermediate (By similarity). Negatively regulates Rho activity by interacting with AKAP13/LBC (PubMed:15249197). Acts as a transcriptional activator of the MYC gene; binds DNA non-specifically (PubMed:19435876, PubMed:8392752). Binds to both single-stranded guanine- and cytosine-rich strands within the nuclease hypersensitive element (NHE) III(1) region of the MYC gene promoter. Does not bind to duplex NHE III(1) (PubMed:19435876). Has G-quadruplex (G4) DNA-binding activity, which is independent of its nucleotide-binding and kinase activity. Binds both folded and unfolded G4 with similar low nanomolar affinities. Stabilizes folded G4s regardless of whether they are prefolded or not (PubMed:25679041). Exhibits histidine protein kinase activity (PubMed:20946858).

Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis. There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.

Supplied As

200ug/ml of Ab produced in a mammalian-based expression system. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

Storage and Stability

Antibody with azide - store at 2 to 8 °C. Antibody without azide - store at -20 to -80 °C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.