

#14671 Store at -20°C

ANT2/SLC25A5 (E2B9D) Rabbit mAb


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3 Trask Lane | Danvers | Massachusetts | 01923 | USA
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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB, IP	H M R Mk	Endogenous	29	Rabbit IgG	#P05141	292

Product Usage Information	Application Western Blotting Immunoprecipitation	Dilution 1:1000 1:50
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.	
Specificity / Sensitivity	ANT2/SLC25A5 (E2B9D) Rabbit mAb recognizes endogenous levels of total ANT2/SLC25A5 protein.	
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly156 of human ANT2/SLC25A5 protein.	
Background	Adenine nucleotide translocase 2 (ANT2/SLC25A5) is a member of the adenine nucleotide translocase family of mitochondrial inner membrane proteins that function differently in metabolic and apoptotic pathways (1). Research studies indicate that ANT2 expression in undifferentiated, proliferating cells correlates with the rate of glycolytic metabolism and may be an indicator of carcinogenesis (2). Suppression of ANT2/SLC25A5 expression by specific RNA interference in human breast cancer cells promotes apoptosis and inhibits tumor cell growth (2), which suggests a cytoprotective role of ANT2/SLC25A5 (1,3).	
Background References	1. Brenner, C. et al. (2011) <i>Oncogene</i> 30, 883-95. 2. Chevrollier, A. et al. (2011) <i>Biochim Biophys Acta</i> 1807, 562-7. 3. Jang, J.Y. et al. (2008) <i>Breast Cancer Res</i> 10, R11.	

Species Reactivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
Western Blot Buffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.
Applications Key	WB: Western Blotting IP: Immunoprecipitation
Cross-Reactivity Key	H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected
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