

ANT2/SLC25A5 Antibody

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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	H	Endogenous	29	Rabbit	#P05141	292

Product Usage Information**Application**

Western Blotting

Dilution

1:1000

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

ANT2/SLC25A5 Antibody recognizes endogenous levels of total ANT2/SLC25A5 protein.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly158 of human ANT2/SLC25A5 protein. Antibodies are purified by protein A and peptide affinity chromatography.

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) *Oncogene* 30, 883-95.
2. Chevrollier, A. et al. (2011) *Biochim Biophys Acta* 1807, 562-7.
3. Jang, J.Y. et al. (2008) *Breast Cancer Res* 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

W: Western Blotting

Cross-Reactivity Key

H: Human

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