

ARG43145 anti-NNT antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes NNT
Tested Reactivity	Hu, Ms, Rat, Mk
Tested Application	FACS, ICC/IF, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	NNT
Species	Human
Immunogen	Recombinant protein corresponding to C44-A350 of Human NNT.
Conjugation	Un-conjugated
Alternate Names	GCCD4; NAD(P) transhydrogenase, mitochondrial; EC 1.6.1.2; Nicotinamide nucleotide transhydrogenase; Pyridine nucleotide transhydrogenase

Application Instructions

Application table	Application	Dilution
	FACS	1:150 - 1:500
	ICC/IF	1:200 - 1:1000
	WB	1:500 - 1:2000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Observed Size	~ 110 kDa	

Properties

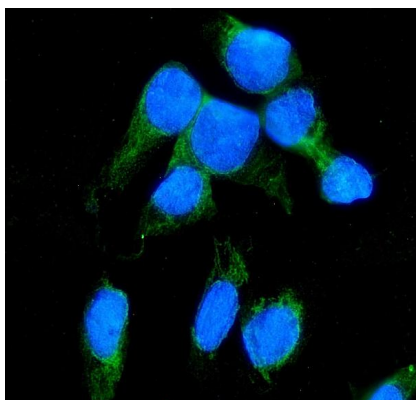
Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	0.2% Na ₂ HPO ₄ , 0.9% NaCl, 0.01% Sodium azide and 4% Trehalose.
Preservative	0.01% Sodium azide
Stabilizer	4% Trehalose
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

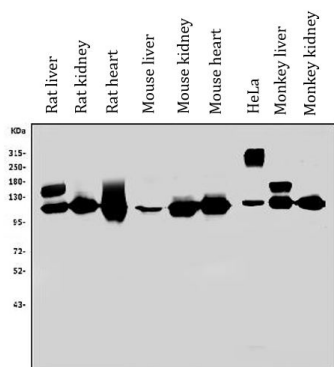
Gene Symbol	NNT
Gene Full Name	nicotinamide nucleotide transhydrogenase
Background	This gene encodes an integral protein of the inner mitochondrial membrane. The enzyme couples hydride transfer between NAD(H) and NADP(+) to proton translocation across the inner mitochondrial membrane. Under most physiological conditions, the enzyme uses energy from the mitochondrial proton gradient to produce high concentrations of NADPH. The resulting NADPH is used for biosynthesis and in free radical detoxification. [provided by RefSeq, Sep 2016]
Function	The transhydrogenation between NADH and NADP is coupled to respiration and ATP hydrolysis and functions as a proton pump across the membrane (By similarity). May play a role in reactive oxygen species (ROS) detoxification in the adrenal gland (PubMed:22634753). [UniProt]
Calculated Mw	114 kDa
Cellular Localization	Mitochondrion inner membrane; Multi-pass membrane protein; Matrix side. [UniProt]

Images



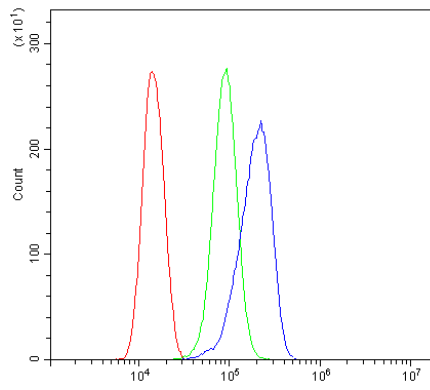
ARG43145 anti-NNT antibody ICC/IF image

Immunofluorescence: U2OS cells were blocked with 10% goat serum and then stained with ARG43145 anti-NNT antibody (green) at 4 µg/ml dilution, overnight at 4°C. DAPI (blue) for nuclear staining.



ARG43145 anti-NNT antibody WB image

Western blot: 50 µg of sample under reducing conditions. Rat liver, Rat kidney, Rat heart, Mouse liver, Mouse kidney, Mouse heart, HeLa, Monkey liver and Monkey kidney lysates stained with ARG43145 anti-NNT antibody at 0.25 µg/ml dilution, overnight at 4°C.



ARG43145 anti-NNT antibody FACS image

Flow Cytometry: THP-1 cells were blocked with 10% normal goat serum and then stained with ARG43145 anti-NNT antibody (blue) at $1 \mu\text{g}/10^6$ cells for 30 min at 20°C , followed by incubation with DyLight[®]488 labelled secondary antibody. Isotype control antibody (green) was rabbit IgG ($1 \mu\text{g}/10^6$ cells) used under the same conditions. Unlabelled sample (red) was also used as a control.