

Product datasheet for **TA321275**

Aconitase 2 (ACO2) Rabbit Polyclonal Antibody

Product data:

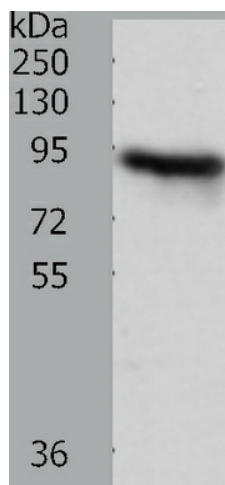
Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	ELISA: 1:2000-5000, WB: 1:500-2000, IHC: 1:50-200
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Synthetic peptide corresponding to a region derived from 766-780 amino acids of human aconitase 2, mitochondrial
Formulation:	PBS pH7.3, 0.05% NaN ₃ , 50% glycerol
Concentration:	lot specific
Purification:	Antigen affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	85 kDa
Gene Name:	aconitase 2
Database Link:	NP_001089 Entrez Gene 11429 MouseEntrez Gene 79250 RatEntrez Gene 50 Human Q99798
Background:	The protein encoded by this gene belongs to the aconitase/IPM isomerase family. It is an enzyme that catalyzes the interconversion of citrate to isocitrate via cis-aconitate in the second step of the TCA cycle. This protein is encoded in the nucleus and functions in the mitochondrion. It was found to be one of the mitochondrial matrix proteins that are preferentially degraded by the serine protease 15 (PRSS15), also known as Lon protease, after oxidative modification.?
Synonyms:	ACONM; HEL-S-284; ICRD; OCA8; OPA9



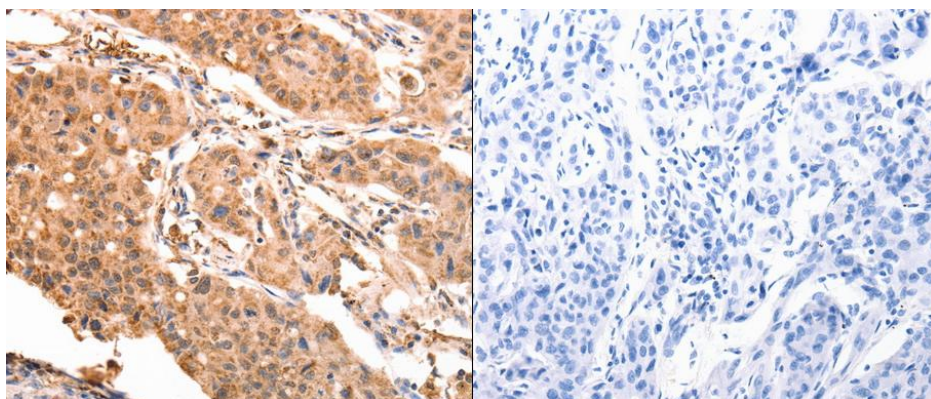
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Protein Pathways: Citrate cycle (TCA cycle), Glyoxylate and dicarboxylate metabolism, Metabolic pathways

Product images:



Predicted band size: 85 kDa. Positive control: Mouse heart tissue lysate. Recommended dilution: 1/500-2000. (Gel: 10%SDS-PAGE Lysate: 40 ug per lane Primary antibody: 1/500 dilution Secondary antibody: Goat anti Rabbit IgG - H&L (HRP) at 1/10000 dilution Exposure time: 5 seconds)



Predicted cell location: Cytoplasm. Positive control: Human lung cancer tissue. Recommended dilution: 1/50-200 The image on the left is immunohistochemistry of paraffin-embedded Human lung cancer using ACO2 antibody at dilution 1/30, on the right is treated with the synthetic peptide. (Original magnification: x 200)