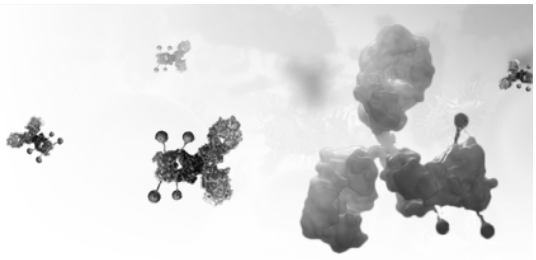

Magic™ Anti-Aconitase 1 polyclonal antibody (DPABH-16843)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	Iron sensor. Binds a 4Fe-4S cluster and functions as aconitase when cellular iron levels are high. Functions as mRNA binding protein that regulates uptake, sequestration and utilization of iron when cellular iron levels are low. Binds to iron-responsive elements (IRES) in target mRNA species when iron levels are low. Binding of a 4Fe-4S cluster precludes RNA binding.Catalyzes the isomerization of citrate to isocitrate via cis-aconitate.
Specificity	DPABH-16843 detects endogenous levels of total Aconitase 1 protein.
Target	Aconitase 1
Immunogen	Synthetic non phosphopeptide derived from human Aconitase 1 around the phosphorylation site of serine 711 (Y-G-SP-R-R).
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human
Purification	Immunogen affinity purified
Conjugate	Unconjugated
Applications	ELISA, IHC-P
Format	Liquid
Size	100 µg
Buffer	Constituents: 50% Glycerol, PBS (without Mg2+ and Ca2+), 150mM Sodium chloride, pH 7.4

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Preservative	0.02% Sodium Azide
Storage	Store at -20°C. Stable for 12 months at -20°C

GENE INFORMATION

Gene Name	ACO1 aconitase 2, soluble [Homo sapiens]
Official Symbol	ACO1
Synonyms	ACO1; aconitase 1, soluble; IRP1; ACONS; HEL60; IREB1; IREBP; IREBP1; cytoplasmic aconitate hydratase; IRE-BP 1; citrate hydro-lyase; iron regulatory protein 1; ferritin repressor protein; epididymis luminal protein 60; aconitate hydratase, cytoplasmic; iron-responsive element binding protein 1; iron-responsive element-binding protein 1;
Entrez Gene ID	48
Protein Refseq	NP_001265281.1
UniProt ID	P21399
Pathway	2-Oxocarboxylic acid metabolism; Biosynthesis of amino acids; Carbon metabolism; Citrate cycle (TCA cycle)
Function	4 iron, 4 sulfur cluster binding; RNA binding; RNA binding; aconitate hydratase activity

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