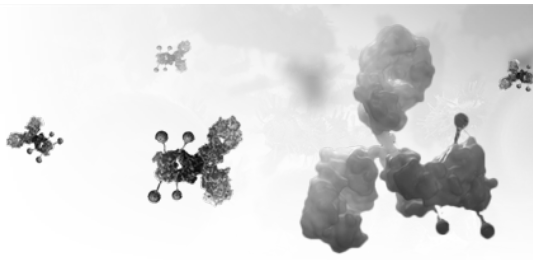

Anti-ACO1 (aa 129-143) polyclonal antibody (DPABH-24643)

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.
Immunogen	Synthetic peptide: QVDFNRRADSLQKNQ by a Cysteine residue linker, corresponding to internal sequence amino acids 129-143 of Human Aconitase 1 (NP_002188.1).
Isotype	IgG
Source/Host	Goat
Species Reactivity	Human
Purification	Immunogen affinity purified
Conjugate	Unconjugated
Applications	WB
Format	Liquid
Size	100 µg
Buffer	Constituents: 0.5% BSA, Tris buffered saline, pH 7.3
Preservative	0.02% Sodium Azide
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.

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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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