

Recombinant DGRmAb[®]

Aconitase 1 (DGR14355) Rabbit mAb

db15331

Package : 10µL 20µL 50µL 100µL

Product Name : Aconitase 1 (DGR14355) Rabbit mAb Cat.No.: db15331 Synonyms : IRP1; ACONS; HEL60; IREB1; IREBP; IREBP1 Application : WB, ICC/IF, FC Reactivity : Human,Mouse,Rat Host species : Rabbit

Background

The protein encoded by this gene is a bifunctional, cytosolic protein that functions as an essential
enzyme in the TCA cycle and interacts with mRNA to control the levels of iron inside cells. When
cellular iron levels are high, this protein binds to a 4Fe-4S cluster and functions as an aconitase.
Aconitases are iron-sulfur proteins that function to catalyze the conversion of citrate to isocitrate.
When cellular iron levels are low, the protein binds to iron-responsive elements (IREs), which are
stem-loop structures found in the 5' UTR of ferritin mRNA, and in the 3' UTR of transferrin receptor
mRNA. When the protein binds to IRE, it results in repression of translation of ferritin mRNA, and
inhibition of degradation of the otherwise rapidly degraded transferrin receptor mRNA. The
encoded protein has been identified as a moonlighting protein based on its ability to perform
mechanistically distinct functions. Alternative splicing results in multiple transcript variants [provided
by RefSeq, Jan 2014]

1

Immunogen	A synthetic peptide of human Aconitase
-----------	--

Gene ID	48
Swiss Prot	P21399
Synonyms	IRP1; ACONS; HEL60; IREB1; IREBP; IREBP1
Reactivity	Human,Mouse,Rat
Application	WB, ICC/IF, FC
Recommended dilution	WB: 1:1000 ICC/IF: 1:100-1:200 FC: 1:100
Calculated MW	98 kDa
Observed MW	98 kDa
Host species	Rabbit

dvagbvo 戴格生物

Clonality	Monoclonal
Clonality No.	DGR14355
lsotype	lgG
Purity	Affinity Purification
Conjugation	Un-conjugated
Storage Stability	Store at -20°C. Supplied in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% sodium azide and 0.05% BSA. Stable for 12 months from date of receipt.