

Rabbit IREB1 Polyclonal Antibody | anti-IREB1 antibody

IREB1 Antibody

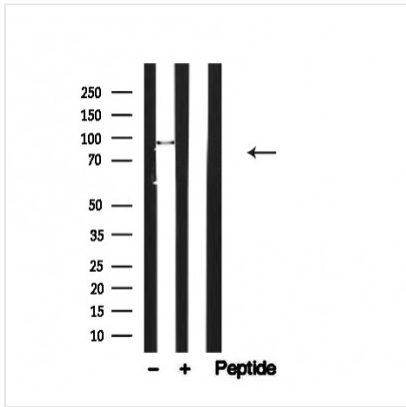
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA329534	Rabbit	Human, Mouse, Rat Predicted Reactivity: Pig (100%), Zebrafish (83%), Bovine (92%), Horse (92%), Sheep (92%), Rabbit (100%), Dog (92%), Chicken (92%), Xenopus (92%)	ELISA, Western Blot

PRODUCT SYNONYMS

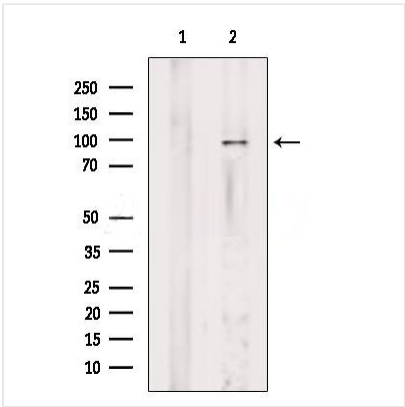
IREB1; Polyclonal Antibody; IREB1 Antibody; ACO 1; ACO1; ACOC_HUMAN; Aconitase 1 soluble; Aconitase; Aconitase1; Aconitate hydratase; ACONS; Citrate hydro lyase; Citrate hydro-lyase; Cytoplasmic aconitate hydratase; Ferritin repressor protein; IRE BP 1; IRE-BP 1; IREB 1; IREBP; IREBP1; Iron regulatory protein 1; Iron responsive element binding protein 1; Iron-responsive element-binding protein 1; IRP 1; IRP1; OTTHUMP00000045233; anti-IREB1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted Reactivity: Pig (100%), Zebrafish (83%), Bovine (92%), Horse (92%), Sheep (92%), Rabbit (100%), Dog (92%), Chicken (92%), Xenopus (92%)
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	IREB1 Antibody detects endogenous levels of total IREB1.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-IREB1 antibody	ELISA (Peptide ELISA), WB (Western Blot)
Immunogen	A synthesized peptide derived from human IREB1, corresponding to a region within N-terminal amino acids.
Conjugation	Unconjugated
Fragment	Fab fragment
Subunit Structure	Interacts (when associated with the 4Fe-4S) with FBXL5. Interacts with frataxin (81-210).
Similarity	Belongs to the aconitase/IPM isomerase family.
Subcellular Location	Cytoplasm.
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



WB (Western Blot)
Western blot analysis of IREB1 in lysates of HeLa, using IREB1 Antibody(AF4711).



WB (Western Blot)
Western blot analysis of extracts from Mouse brain, using IREB1 Antibody. The lane on the left was treated with blocking peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-IREB1 antibody	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.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	8659555
NCBI GeneID	48
NCBI Accession #	NP_002188.1
NCBI GenBank Nucleotide #	NM_002197.2
UniProt Accession #	P21399; Q14652; Q5VZA7; D3DRK7
Molecular Weight	98,399 Da
NCBI Official Full Name	cytoplasmic aconitate hydratase
NCBI Official Synonym Full Names	aconitase 1, soluble
NCBI Official Symbol	ACO1
NCBI Official Synonym Symbols	IRP1; ACONS; IREB1; IREBP; IREBP1
NCBI Protein Information	cytoplasmic aconitate hydratase; IRE-BP 1; citrate hydro-lyase; iron regulatory protein 1; ferritin repressor protein; aconitate hydratase, cytoplasmic; iron-responsive element binding protein 1; iron-responsive element-binding protein 1
UniProt Protein Name	Cytoplasmic aconitate hydratase
UniProt Gene Name	ACO1
UniProt Synonym Gene Names	IREB1; Aconitase; IRP1; IRE-BP 1
UniProt Entry Name	ACOC_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.