

MIRO2 Recombinant monoclonal antibody

Catalog Number: 88330-1-RR

Basic Information

Catalog Number: 88330-1-RR	GenBank Accession Number: BC014942	Purification Method: Protein A purification
Source: Rabbit	GeneID (NCBI): 89941	CloneNo.: 260828B1
Isotype: IgG	UNIPROT ID: Q8IXI1	Recommended Dilutions: WB: 1:5000-1:50000 IHC: 1:250-1:1000 IF/ICC: 1:200-1:800
Immunogen Catalog Number: AG1752	Full Name: ras homolog gene family, member T2	
	Calculated MW: 68 kDa	
	Observed MW: 68-75 kDa	

Applications

Tested Applications:
WB, IHC, IF/ICC, ELISA

Species Specificity:
human

Note-IHC: suggested antigen retrieval with **TE buffer pH 9.0; (*)** Alternatively, antigen retrieval may be performed with **citrate buffer pH 6.0**

Positive Controls:

WB: LNCaP cells, A549 cells, HeLa cells, HEK-293 cells, HepG2 cells, Jurkat cells, K-562 cells

IHC: human colon tissue,

IF/ICC: HepG2 cells,

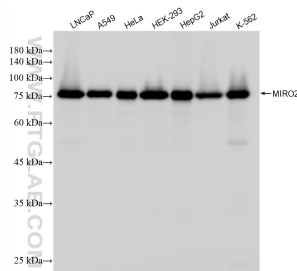
Background Information

RHOT2 (Ras homolog gene family, member T2), also known as ARHT2, RASL or MIRO-2 (mitochondrial Rho GTPase 2), is a 618 amino acid single-pass type IV membrane protein as a member of the Rho family of GTPases. It is localized to the outer mitochondrial membrane and plays a role in mitochondrial trafficking and fusion-fission dynamics. RHOT2 is ubiquitously expressed with highest levels found in pancreas, heart, kidney and skeletal muscle. MIRO2 is highly phosphorylated at basal conditions, as evidenced by an immunoreactive band that electrophoretically migrates 7 kDa higher (~75 kDa) compared to its predicted molecular weight (68 kDa) (PMID: 28556983).

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

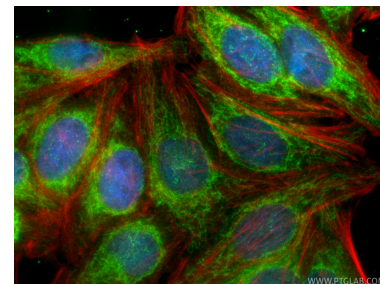
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 88330-1-RR (MIRO2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 88330-1-RR (MIRO2 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using MIRO2 antibody (88330-1-RR, Clone: 260828B1) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-phalloidin (red).