

## Anti-CBARA1/MICU1 Antibody (4K284)

## Product Details

Ig Type:	IgG
Reactivity:	Human (predicted:Mouse,Rat)
Molecular Weight:	Theoretical: 54 kDa. Actual: 54/46 kDa.
Clone:	4K284
Purification:	Protein G purified

## Applications

Sample:	Lane 1: A549 (Human) Cell Lysate at 30 µg Lane 2: U937 (Human) Cell Lysate at 30 µg Lane 3: U87MG (Human) Cell Lysate at 30 µg
Verified Activity:	Lane 4: HepG2 (Human) Cell Lysate at 30 µg Primary: Anti-CBARA1/MICU1 (TMAB-03708) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution Predicted band size: 54/46 kD Observed band size: 54/46 kD
Application:	WB
Recommended	WB: 1:500-1000

## Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

## Antigen Details

Immunogen:	Recombinant Protein: human CBARA1 Protein (1-250/476)
Antigen Species:	Human
Gene ID:	10367
Uniprot ID:	Q9BPX6

## Research Background

This gene encodes an essential regulator of mitochondrial Ca<sup>2+</sup> uptake under basal conditions. The encoded protein interacts with the mitochondrial calcium uniporter, a mitochondrial inner membrane Ca<sup>2+</sup> channel, and is essential in preventing mitochondrial Ca<sup>2+</sup> overload, which can cause excessive production of reactive oxygen species and cell stress. Alternatively spliced transcript variants encoding different isoforms have been described. [provided by RefSeq, Mar 2013]

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