ARG43058
anti-MORC3 antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes MORC3
Tested Reactivity	Hu, Ms, Rat
Tested Application	FACS, ICC/IF, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	MORC3
Species	Human
Immunogen	Synthetic peptide corresponding to a sequence of Human MORC3. (ESLKLRSLRVNVGQLLAMIVPDLDLQQVNYDVD)
Conjugation	Un-conjugated
Alternate Names	ZCW5; Zinc finger CW-type coiled-coil domain protein 3; ZCWCC3; NXP2; MORC family CW-type zinc finger protein 3

Application Instructions

Application table

Application	Dilution
FACS	1:150 - 1:500
ICC/IF	1:200 - 1:1000
WB	1:500 - 1:2000

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

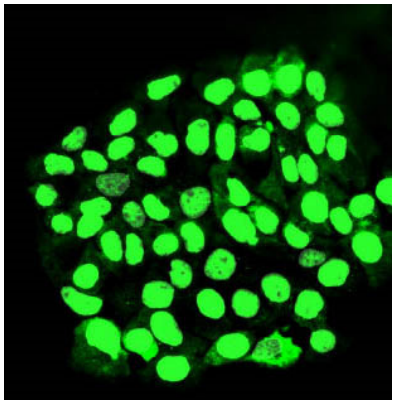
Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	0.2% Na2HPO4, 0.9% NaCl, 0.05% Sodium azide and 4% Trehalose.
Preservative	0.05% Sodium azide
Stabilizer	4% Trehalose
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

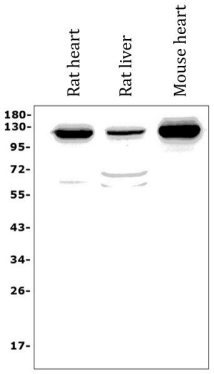
Gene Symbol	MORC3
Gene Full Name	MORC family CW-type zinc finger 3
Background	This gene encodes a protein that localizes to the nuclear matrix and forms nuclear bodies via an ATP-dependent mechanism. The protein is predicted to have coiled-coil and zinc finger domains and has RNA binding activity. Alternative splicing produces multiple transcript variants encoding distinct isoforms. [provided by RefSeq, Feb 2016]
Function	Nuclear factor which forms MORC3-NBs (nuclear bodies) via an ATP-dependent mechanism (PubMed:20501696). Sumoylated MORC3-NBs can also associate with PML-NBs (PubMed:20501696). Recruits TP53 and SP100 to PML-NBs, thus regulating TP53 activity (PubMed:17332504). Binds RNA in vitro (PubMed:11927593). May be required for influenza A transcription during viral infection (PubMed:26202233). [UniProt]
Calculated Mw	107 kDa
PTM	Sumoylation is involved in interaction with PML and localization to PML nuclear bodies. [UniProt]
Cellular Localization	Nucleus, nucleoplasm. Nucleus matrix. Nucleus, PML body. Note=Also found in PML-independent nuclear bodies. Localization to nuclear bodies is ATP-dependent. [UniProt]

Images



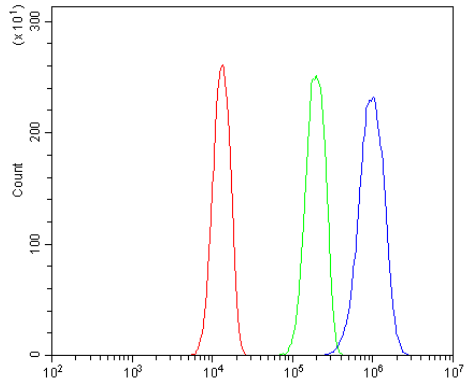
ARG43058 anti-MORC3 antibody ICC/IF image

Immunofluorescence: A431 cells were blocked with 10% goat serum and then stained with ARG43058 anti-MORC3 antibody at 2 µg/ml dilution, overnight at 4°C.



ARG43058 anti-MORC3 antibody WB image

Western blot: 50 µg of sample under reducing conditions. Rat heart, Rat liver and Mouse heart lysates stained with ARG43058 anti-MORC3 antibody at 0.5 µg/ml dilution, overnight at 4°C.



ARG43058 anti-MORC3 antibody FACS image

Flow Cytometry: A431 cells were blocked with 10% normal goat serum and then stained with ARG43058 anti-MORC3 antibody (blue) at 1 µg/10^6 cells for 30 min at 20°C, followed by incubation with DyLight®488 labelled secondary antibody. Isotype control antibody (green) was rabbit IgG (1 µg/10^6 cells) used under the same conditions. Unlabelled sample (red) was also used as a control.