ARG42907
anti-TIMM44 antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes TIMM44
Tested Reactivity	Hu, Ms, Rat
Tested Application	ICC/IF, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	TIMM44
Species	Human
Immunogen	Recombinant fusion protein corresponding to aa. 153-452 of Human TIMM44 (NP_006342.2).
Conjugation	Un-conjugated
Alternate Names	Mitochondrial import inner membrane translocase subunit TIM44; TIM44

Application Instructions

Application table

Application	Dilution
ICC/IF	1:50 - 1:200
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.

Positive Control: Rat kidney

Observed Size: ~ 47 kDa

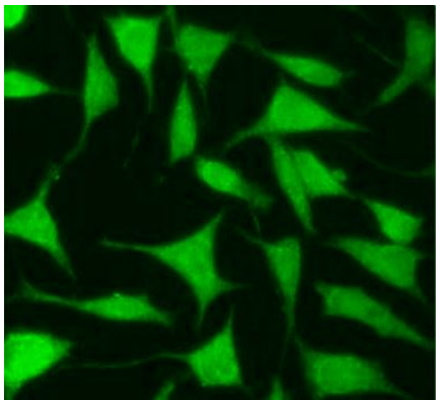
Properties

Form	Liquid
Purification	Affinity purified.
Buffer	PBS (pH 7.3), 0.02% Sodium azide and 50% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	50% Glycerol
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. 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

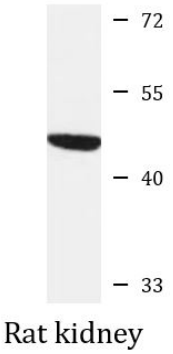
Gene Symbol	TIMM44
Gene Full Name	translocase of inner mitochondrial membrane 44 homolog (yeast)
Background	This gene encodes a peripheral membrane protein associated with the mitochondrial inner membrane translocase, which functions in the import of proteins across the mitochondrial inner membrane and into the mitochondrial matrix. The encoded protein mediates binding of mitochondrial heat shock protein 70 to the translocase of inner mitochondrial membrane 23 (TIM23) complex. Expression of this gene is upregulated in kidney in a mouse model of diabetes. A mutation in this gene is associated with familial oncocytic thyroid carcinoma. [provided by RefSeq, Jul 2016]
Function	Essential component of the PAM complex, a complex required for the translocation of transit peptide-containing proteins from the inner membrane into the mitochondrial matrix in an ATP-dependent manner. Recruits mitochondrial HSP70 to drive protein translocation into the matrix using ATP as an energy source. [UniProt]
Calculated Mw	51 kDa
Cellular Localization	Mitochondrion inner membrane; Peripheral membrane protein; Matrix side. Mitochondrion matrix. [UniProt]

Images



ARG42907 anti-TIMM44 antibody ICC/IF image

Immunofluorescence: L929 cells stained with ARG42907 anti-TIMM44 antibody at 1:100 dilution.



ARG42907 anti-TIMM44 antibody WB image

Western blot: 25 µg of Rat kidney lysate stained with ARG42907 anti-TIMM44 antibody at 1:1000 dilution.