ARG44225
anti-Matrin 3 antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes Matrin 3
Tested Reactivity	Hu, Ms, Rat
Tested Application	FACS, ICC/IF, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	Matrin 3
Species	Human
Immunogen	Recombinant protein of Human Matrin 3
Conjugation	Un-conjugated
Alternate Names	MATR3; Matrin 3; KIAA0723; VCPDM; Matrin-3; MGC9105; MPD2; Vocal Cord And Pharyngeal Weakness With Distal Myopathy; Myopathy, Distal 2; ALS21

Application Instructions

Application table

Application	Dilution
FACS	1-3 µg/1x10^6 cells
ICC/IF	5 µg/ml
IHC-P	1-2 µg/ml
WB	0.1-0.25 µg/ml

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

Properties

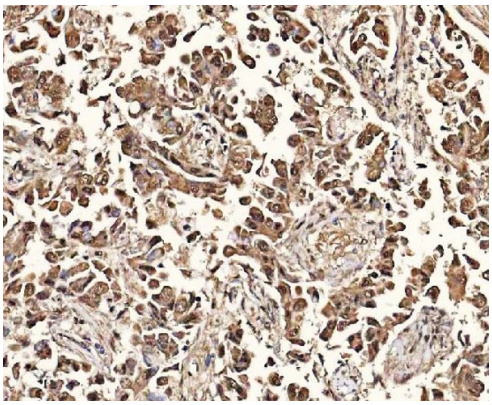
Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	0.9% NaCl, 0.2% Na2HPO4, 0.05% Sodium azide and 5% BSA.
Preservative	0.05% Sodium azide
Stabilizer	5% BSA
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term 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

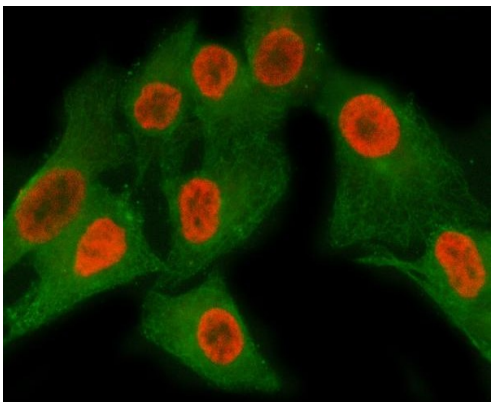
Gene Symbol	MATR3
Gene Full Name	Matrin 3
Background	This gene encodes a nuclear matrix protein, which is proposed to stabilize certain messenger RNA species. Mutations of this gene are associated with distal myopathy 2, which often includes vocal cord and pharyngeal weakness. Alternatively spliced transcript variants, including read-through transcripts composed of the upstream small nucleolar RNA host gene 4 (non-protein coding) and matrin 3 gene sequence, have been identified. Pseudogenes of this gene are located on chromosomes 1 and X.
Function	May play a role in transcription or may interact with other nuclear matrix proteins to form the internal fibrogranular network. In association with the SFPQ-NONO heteromer may play a role in nuclear retention of defective RNAs. Plays a role in the regulation of DNA virus-mediated innate immune response by assembling into the HDP-RNP complex, a complex that serves as a platform for IRF3 phosphorylation and subsequent innate immune response activation through the cGAS-STING pathway .
Calculated Mw	95 kDa
PTM	Acetylation, Isopeptide bond, Phosphoprotein, Ubl conjugation
Cellular Localization	Nucleus

Images



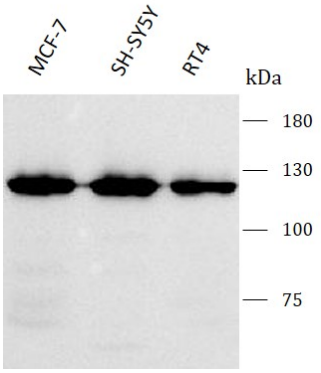
ARG44225 anti-Matrin 3 antibody IHC-P image

Immunohistochemistry: Human breast cancer stained with ARG44225 anti-Matrin 3 antibody at 2 µg/mL dilution.



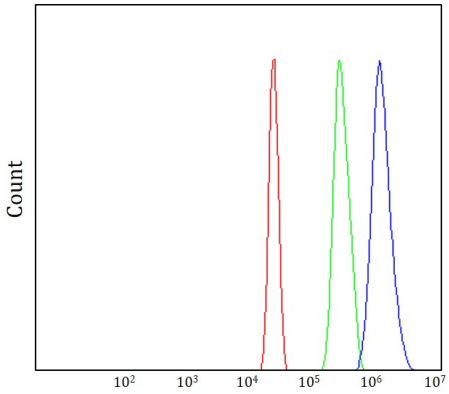
ARG44225 anti-Matrin 3 antibody ICC/IF image

Immunofluorescence: A549 stained with ARG44225 anti-Matrin 3 antibody at 5 µg/mL dilution.



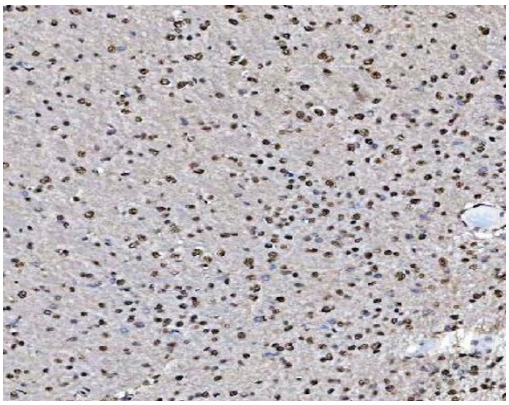
ARG44225 anti-Matrin 3 antibody WB image

Western blot: MCF-7, SH-SY5Y and RT4 stained with ARG44225 anti-Matrin 3 antibody at 0.25 µg/mL dilution.



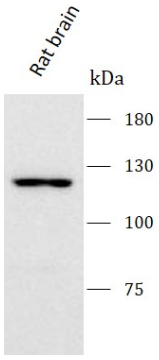
ARG44225 anti-Matrin 3 antibody FACS image

Flow Cytometry: HepG2 stained with ARG44225 anti-Matrin 3 antibody at 1 µg/1x10^6 cells dilution.



ARG44225 anti-Matrin 3 antibody IHC-P image

Immunohistochemistry: Rat brain stained with ARG44225 anti-Matrin 3 antibody at 2 µg/mL dilution.



ARG44225 anti-Matrin 3 antibody WB image

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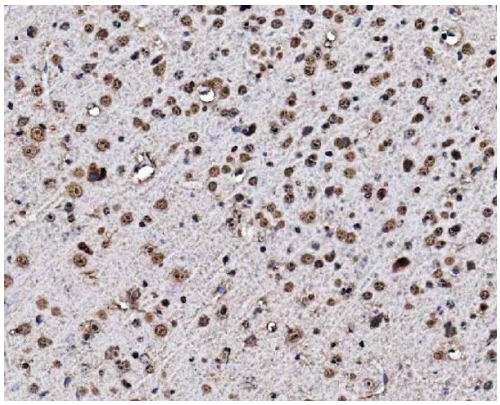
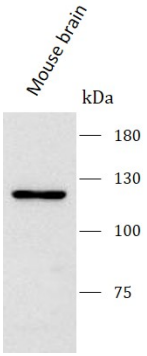


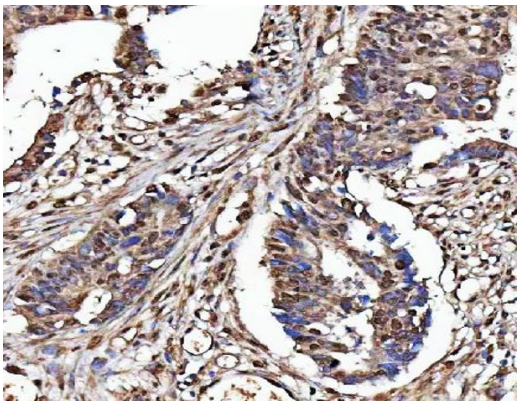
ARG44225 anti-Matrin 3 antibody IHC-P image

Immunohistochemistry: Mouse brain stained with ARG44225 anti-Matrin 3 antibody at 2 µg/mL dilution.



ARG44225 anti-Matrin 3 antibody WB image

Western blot: Mouse brain stained with ARG44225 anti-Matrin 3 antibody at 0.25 µg/mL dilution.



ARG44225 anti-Matrin 3 antibody IHC-P image

Immunohistochemistry: Human rectum adenocarcinoma stained with ARG44225 anti-Matrin 3 antibody at 2 µg/mL dilution.