

Datasheet for 600-401-CU1**MFSD2A Antibody****Overview**

Description:	Anti-MFSD2A (RABBIT) Antibody - 600-401-CU1
Item No.:	600-401-CU1
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	Multidrug transporters, such as MFSD2A, are membrane proteins that expel a wide spectrum of cytotoxic compounds from the cell and render cells resistant to multiple drugs. Major Facilitator Superfamily (MFS) members are capable of transporting various substrates such as sugars, polyols, drugs, neurotransmitters, amino acids, peptides, and inorganic anions, although most members are substrate-specific. MFSD2A is a novel lung cancer tumor suppressor gene that regulates cell cycle progression and matrix attachment and has recently been described as the human receptor for syncytin-2, a retrovirus-derived protein mediating fusion of placental trophoblasts. MFSD2A is expressed in many tissues and is highly induced in liver and brown adipose tissue (BAT) during fasting. The activation of the betaAR signaling pathway plays a major role in the induction of MFSD2A expression during adaptive thermogenesis.
Synonyms:	MFSD2A Antibody, zgc,101615, Major facilitator superfamily domain-containing protein 2A-A, Sodium-dependent lysophosphatidylcholine symporter 1, NLS1, Sodium-dependent LPC symporter 1, Major facilitator superfamily domain-containing protein 2A, MFSD2, NLS1, HMFN0656, PP9177, UNQ300/PRO341
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	MFSD2A
Reactivity:	Human, Mouse, Rat

Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-MFSD2A antibody was prepared from whole rabbit serum produced by repeated immunizations with an 18 amino acid synthetic peptide near the C-terminus of human MFSD2A.
Purity/Specificity:	Anti-MFSD2A Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with MFSD2A from other sources has not been determined.
Relevant Links:	• UniProtKB - Q8NA29 • GeneID - 84879 • NCBI - NP_001129965.1

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-MFSD2A Antibody has been tested for use in ELISA, Western Blotting, Immunohistochemistry and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 59 kDa in Western Blots of specific cell lysates and tissues.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000-1:20,000
IF:	20 µg/mL
IHC:	5 µg/mL
WB:	1-2 µg/mL

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

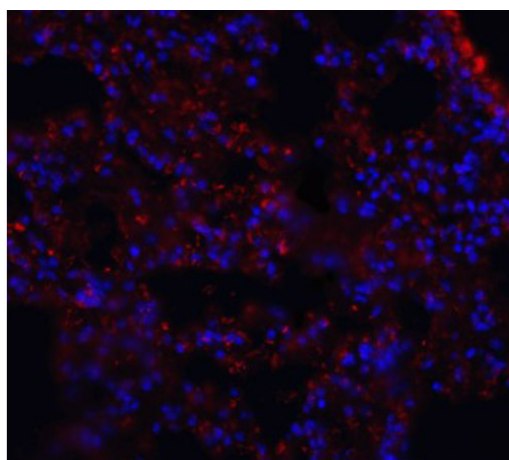
Shipping & Handling

Shipping Condition:	Wet Ice
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Storage Condition: Antibody can be stored at 4°C up to one year. Antibodies should not be exposed to prolonged high temperatures.

Expiration: Expiration date is one (1) year from date of receipt.

Images



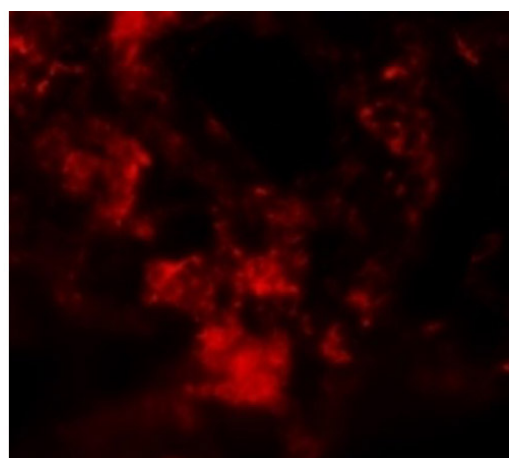
Immunofluorescence Microscopy

Immunofluorescence of MFSD2A.

Tissue: mouse lung tissue.

Primary Antibody: Anti-MFSD2A antibody at 20 µg/mL.

Staining: MFSD2A Antibody (red), DAPI (blue).

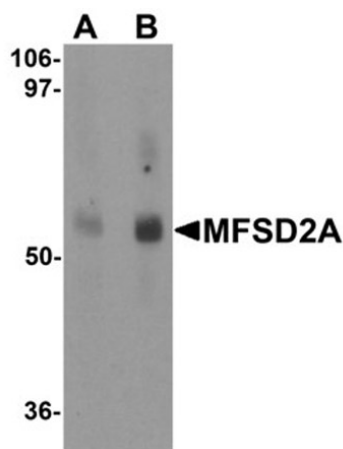


Immunofluorescence Microscopy

Immunofluorescence of MFSD2A.

Cell: Rat Lung cells.

Primary Antibody: Anti-MFSD2A antibody at 20 µg/mL.



Western Blot

Western blot analysis of MFSD2A.

Load: rat lung tissue lysate.

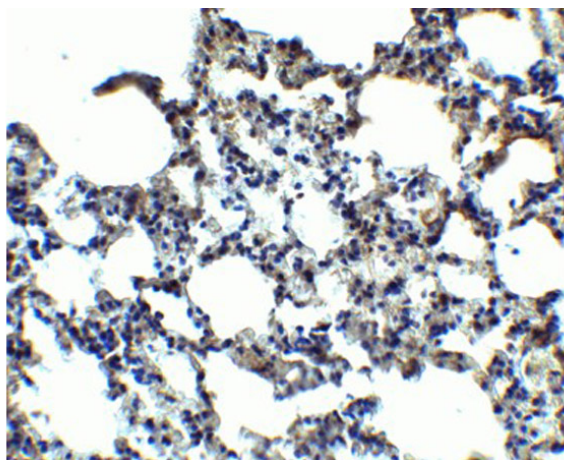
Primary Antibody: Anti-MFSD2A antibody at (A) 1 µg/mL and (B) 2 µg/mL.

Immunohistochemistry

Immunohistochemistry of MFSD2A.

Tissue: mouse lung tissue.

Primary Antibody: Anti-MFSD2A antibody at 2.5 µg/mL.

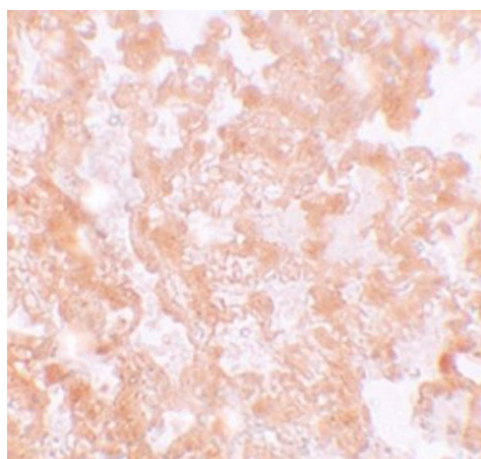


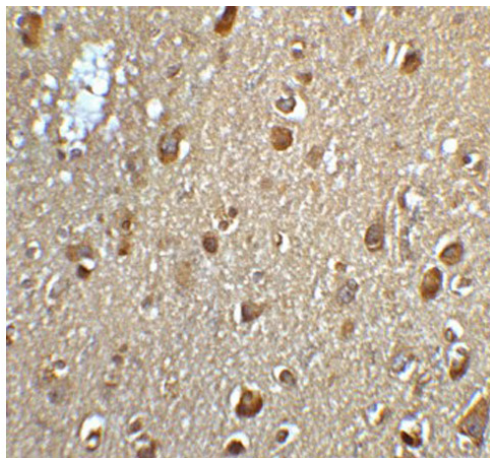
Immunohistochemistry

Immunohistochemistry of MFSD2A.

Tissue: rat lung tissue.

Primary Antibody: Anti-MFSD2A antibody at 5 µg/mL.



**Immunohistochemistry**

Immunohistochemistry of MFSD2A.

Tissue: human brain tissue.

Primary Antibody: Anti-MFSD2A antibody at 5 µg/mL.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.