

Datasheet for 200-401-NH2**Feimin Antibody****Overview**

Description:	Anti-Feimin (RABBIT) Antibody - 200-401-NH2
Item No.:	200-401-NH2
Size:	100 µg
Applications:	ELISA, IP, WB
Reactivity:	Human, Mouse
Host Species:	Rabbit

Product Details

Background:	The Feimin protein, also known as UPF0461 protein or C5orf24, involves regulatory roles within the cell and its exact role is under investigation. Feimin is a newly discovered myokine that complements insulin by fine-tuning glucose levels and boosting exercise capacity, especially under conditions where insulin is less effective. Highly conserved Feimin functions in both glucose homeostasis and has a direct role in muscle thermogenesis. Feimin can be secreted by muscle and act as a myokine where it can affect tissues by engaging MERTK receptor thereby activating AKT. Cellular Feimin (cFeimin) functions as a transcription regulator by interacting with FOXC2 protein, where it helps to enhance exercise performance by reducing thermogenesis.
Synonyms:	Chromosome 5 Open Reading Frame 24, UPF0461 Protein C5orf24, FLJ37562, Feimin
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	C5orf24
Reactivity:	Human, Mouse
Immunogen Type:	Recombinant Protein
Immunogen:	This purified antibody was prepared from rabbit serum after repeated immunizations with recombinant mouse Feimin protein.

Purity/Specificity: Anti-Feimin Antibody is purified from monospecific antiserum by Protein A affinity chromatography. A BLAST analysis of the sequence of the immunogen shows 100% identity with mouse, 97% bovine, and 94% human. This product reacts with mouse, and human Feimin isoform 1 and 2. Reactivity against homologues from other sources is not known.

Relevant Links:

- [NCBI - NP_001129058.1](#)
- [GeneID - 134553](#)
- [UniProtKB - Q7Z6I8-1 \(human\)](#)
- [UniProtKB - Q80X32 \(mouse\)](#)

Application Details

Tested Applications: ELISA, IP, WB

Application Note: Anti-Feimin (RABBIT) Antibody has been tested by ELISA, Western Blot, and Immunoprecipitation. The antibody detects both human and mouse feimin protein from overexpressing cell lysates (using HEK293T and E. coli). A band approximately 20.1kDa in size corresponding to C5orf24 is detected. Cell lines expressing feimin can be expected using appropriate tissues and lysates. Specific conditions for reactivity should be optimized by the end user.

Assay Dilutions: All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

ELISA: 1:44,500-1:64,500

IP: 40ng/mL

WB: 40ng/mL

Formulation

Physical State: Liquid (sterile filtered)

Concentration: 1.18 mg/mL by UV absorbance at 280 nm

Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2

Preservative: 0.01% (w/v) Sodium Azide

Stabilizer: None

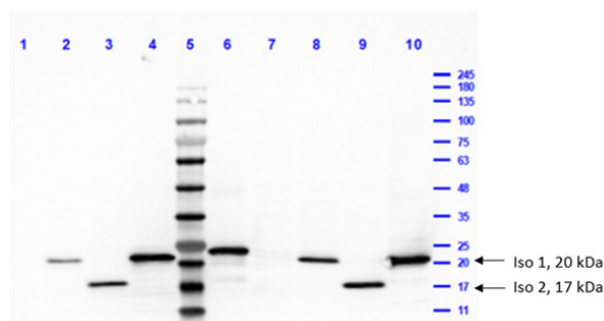
Shipping & Handling

Shipping Condition: Dry Ice

Storage Condition: Store antibody at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. Antibody is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

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

Images



Western Blot

Western blot analysis of Anti-Feimin.

Lane 1 and 7: HEK293T cells transfected, Empty Vector (-).

Lane 2 and 8: HEK293T cells transfected, Hu Feimin Isoform 1 (+).

Lane 3 and 9: HEK293T cells transfected, Hu Feimin Isoform 2 (+).

Lane 4 and 10: HEK293T cells transfected, Ms feimin (+).

Lane 5: MW.

Lane 6: E coli cells transfected, Ms feimin (+).

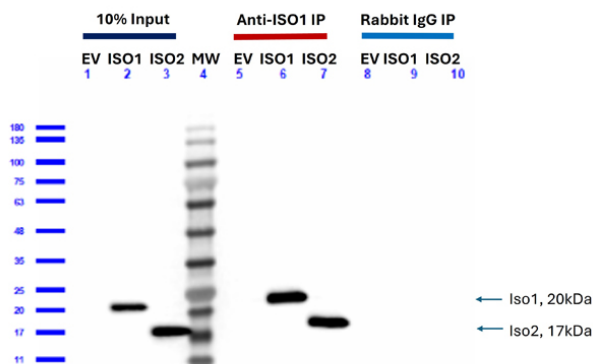
Load: lanes 1-4: 5µg, lane 6: 0.1µg, lanes 7-10: 10µg.

Primary Antibody: Anti-Feimin at 40ng/mL overnight at 2-8°C.

Secondary Antibody: Goat Anti-Rabbit HRP mx (p/n 611-103-122) at 1:40,000 for 30 mins at RT.

Blocking Buffer: Blocking Buffer for Fluorescent Western Blotting (p/n MB-070) for 30 mins at RT.

Predicted MW: Expect 17kDa for Isoform 2, 20 kDa for Isoform 1.



Immunoprecipitation

Feimin Immunoprecipitation (IP) followed by Western Blot (WB) analyses.

Western Blot demonstrates Feimin at 10% input, Anti-Feimin (IOS1)-IP (p/n 200-401-NH2), or rabbit IgG-IP (p/n 011-0102) fractions in empty vector, isoform 1, or isoform 2

HEK293T transfected cells. Cells were lysed using cell lysis buffer (p/n MB-078-0050) and protein samples were incubated with anti-feimin antibody (200-401-NH2) and protein-A beads (p/n PA50-00-0002) overnight at 4 °C, while gently rocking. The following day, beads were washed and proteins were dissociated from the beads and boiled prior to the Western Blotting analyses.

Lanes 1-3: load 10% of input protein for immunoprecipitation. Primary Antibody: Anti-Feimin at 40ng/mL overnight at 2-8°C. Secondary Antibody: Anti-Rabbit TrueBlot HRP (p/n 18-8816-33) 1:40,000 at RT for 1 hr.

Blocking Buffer: Blocking Buffer for Fluorescent Western Blotting (p/n MB-070) at RT for 30mins.

Predicted MW: Isoform 1: ~20 kDa; Isoform 2: ~17 kDa.

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.