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Datasheet for 200-301-NJ4

Feimin phospho T112 Antibody

Overview

Description:	Anti-Feimin pT112 (MOUSE) Monoclonal Antibody - 200-301-NJ4
Item No.:	200-301-NJ4
Size:	100 µg
Applications:	ELISA, SDS-PAGE
Reactivity:	Mouse
Host Species:	Mouse Balb/c

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 phospho antibody
Host Species:	Mouse Balb/c
Clonality:	Monoclonal
Clone ID:	20B12.B7.B6
Format:	IgG1

Target Details

Gene Name:	C5orf24
Reactivity:	Mouse
PTM Specificity:	Phosphorylation

Immunogen Type:	Conjugated Peptide
Immunogen:	This phospho monoclonal antibody was prepared in mice after repeated immunizations with a synthetic peptide corresponding to residues surrounding pT112 of mouse Feimin protein.
Purity/Specificity:	Anti-Feimin pT112 antibody specifically binds to pT112. This monoclonal antibody is purified from tissue culture supernatant fluid by Protein A purified. A BLAST analysis of the sequence of the immunogen shows 100% identity with mouse, human, and bovine. 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, SDS-PAGE
Application Note:	Anti-Feimin pT112 (MOUSE) Antibody has been tested by ELISA. Expect a band approximately 20.1kDa in size corresponding to phosphorylated C5orf24 protein by western blotting in the appropriate cell lysate or extract. 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:	1:69,000-1:169,000
WB:	User Optimized

Formulation

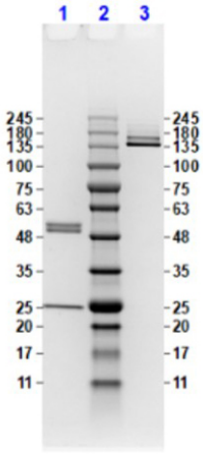
Physical State:	Liquid (sterile filtered)
Concentration:	1.16 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

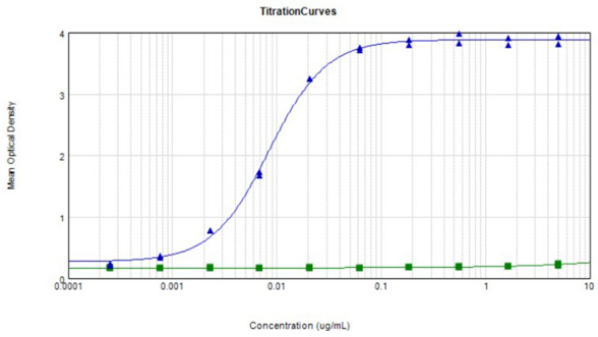
Shipping Condition:	Dry Ice

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



SDS-PAGE
Coomassie stained SDS-PAGE results using Anti-Feimin pT112 (Mouse) Monoclonal Antibody (clone 20B12.B7.B6) separated in a 4-20% gradient gel. Lane 1: Anti-Feimin pT112 (clone 20B12.B7.B6) reduced [1.0µg]. Lane 2: Molecular weight standards. Lane 3: Anti-Feimin pT112 (clone 20B12.B7.B6) non-reduced [1.0µg]. Results show purity with no signs of degradation or aggregation.



ELISA
ELISA results of Anti-Feimin pT112 (Mouse) Monoclonal Antibody Clone 20B12.B7.B6 . Each well was coated in duplicate with 1µg/mL of BSA conjugated Human Feimin [green] or BSA conjugated Human Feimin pT112 [blue]. The starting dilution of antibody was 5µg/mL and the X-axis represents the Log10 of a 3-fold dilution. This titration is a 4-parameter curve fit where the IC50 is defined as the titer of the antibody. The phospho antibody titer was 1:119,000. Assay performed using 3% Fish Gel in PBS (p/n MB-066), Rabbit Anti-Mouse IgG HRP conjugated (p/n 610-403-C46), and TMB substrate (p/n TMBE-1000).

Disclaimer

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