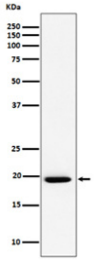
UFC1 Antibody / Ubiquitin-fold modifier conjugating enzyme 1 [clone 30U27] (FY12013)

Catalog No.	Formulation	Size
FY12013	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.	100 ul

Recombinant RABBIT MONOCLONAL

Bulk quote request

Availability	2-3 weeks
Species Reactivity	Human
Format	Liquid
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG
Clone Name	30U27
Purity	Affinity-chromatography
Buffer	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.
UniProt	Q9Y3C8
Applications	Western Blot : 1:500-1:2000 Immunohistochemistry : 1:50-1:200 Immunocytochemistry/Immunofluorescence : 1:50-1:200 Immunoprecipitation : 1:50
Limitations	This UFC1 antibody is available for research use only.



Western blot analysis of UFC1 expression in cell lysate using UFC1 antibody. Predicted molecular weight ~19 kDa.

Description

UFC1 antibody detects ubiquitin-fold modifier conjugating enzyme 1, an essential component of the UFM1 conjugation system. UFC1 functions as an E2-like enzyme that transfers UFM1 to substrate proteins, regulating diverse cellular processes such as ER homeostasis, stress responses, and protein quality control. The UFM1 pathway resembles ubiquitination but is distinct, making UFC1 a unique player in post-translational modification networks.

Research using UFC1 antibody has shown that defects in UFM1 conjugation can impair ER stress management and contribute to diseases including cancer and metabolic disorders. Variations in UFC1 function may alter cell survival and proliferation, and the pathway has been linked to hematopoietic development and cardiac physiology. Because UFMylation is less understood than ubiquitination, ongoing studies continue to reveal novel roles for UFC1 in cellular regulation.

Antibodies against UFC1 are validated for applications such as western blot, immunoprecipitation, and immunohistochemistry. These reagents allow researchers to track UFC1 expression levels and to explore its role in the transfer of UFM1 during cellular stress. Clone-specific performance provides consistency for labs investigating this unique modification pathway.

NSJ Bioreagents offers this UFC1 antibody to support research into UFMylation, protein quality control, and disease mechanisms. Alternate names include ubiquitin-fold modifier conjugating enzyme 1 antibody, UFM1-conjugating enzyme antibody, and UBC-E2 antibody.

Application Notes

Optimal dilution of the UFC1 antibody should be determined by the researcher.

Immunogen

A synthesized peptide derived from human Ubiquitin-fold modifier conjugating enzyme 1 protein was used as the immunogen for the UFC1 antibody.

Storage

Store the UFC1 antibody at -20oC.

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