

#34945 Store at -20°C

ETEA/UBXD8 (D8H6D) Rabbit mAb


Cell Signaling
TECHNOLOGY®

Orders: 877-616-CELL (2355)
orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com
cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA
For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB, IP	H M R	Endogenous	53	Rabbit IgG	#Q96CS3	23197

Product Usage Information

Application

Western Blotting
Immunoprecipitation

Dilution

1:1000
1:200

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

Specificity / Sensitivity

ETEA/UBXD8 (D8H6D) Rabbit mAb recognizes endogenous levels of total ETEA/UBXD8 protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly430 of human ETEA/UBXD8 protein.

Background

Ubiquitin regulatory X domain-containing protein 8 (UBXD8, also known as ETEA and FAF2) is a hairpin-anchored endoplasmic reticulum (ER) protein involved in ER associated degradation (ERAD). It influences this process by promoting translocation of misfolded proteins from the ER lumen to the cytoplasm for proteasome-mediated degradation (1). UBXD8 is a sensor for unsaturated fatty acids. In the absence of fatty acids UBXD8 binds to and targets INSIG1 for degradation, ultimately resulting in activation of SREBP-1. Under this condition, UBXD8 also inhibits triglyceride synthesis by blocking the conversion of diacylglycerols into triglycerides. Unsaturated fatty acids trigger UBXD8 polymerization and dissociation of UBXD8/INSIG1 complex, leading to feedback inhibition of SREBP-1 (2, 3). This induces UBXD8 to translocate from the ER to lipid droplets, where it binds to ATGL and inhibits its lipase activity (4, 5). The complex containing p97 and UBXD8 is reported to promote disassembly of the ribonucleoprotein complex to control mRNA stability (6). In addition, UBXD8 binds to and promotes degradation of neurofibromin (NF1), suggesting a role in regulating Ras activity (7).

Background References

- Mueller, B. et al. (2008) *Proc Natl Acad Sci U S A* 105, 12325-30.
- Lee, J.N. et al. (2008) *J Biol Chem* 283, 33772-83.
- Lee, J.N. et al. (2010) *Proc Natl Acad Sci U S A* 107, 21424-9.
- Zehmer, J.K. et al. (2009) *J Cell Sci* 122, 3694-702.
- Olzmann, J.A. et al. (2013) *Proc Natl Acad Sci U S A* 110, 1345-50.
- Zhou, H.L. et al. (2013) *Genes Dev* 27, 1046-58.
- Phan, V.T. et al. (2010) *Mol Cell Biol* 30, 2264-79.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

WB: Western Blotting **IP:** Immunoprecipitation

Cross-Reactivity Key

H: human **M:** mouse **R:** rat **Hm:** hamster **Mk:** monkey **Vir:** virus **Mi:** mink **C:** chicken **Dm:** D. melanogaster
X: Xenopus **Z:** zebrafish **B:** bovine **Dg:** dog **Pg:** pig **Sc:** S. cerevisiae **Ce:** C. elegans **Hr:** horse
GP: Guinea Pig **Rab:** rabbit **All:** all species expected

Trademarks and Patents

Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.
All other trademarks are the property of their respective owners. Visit cellsignal.com/trademarks for more information.

Limited Uses

Except as otherwise expressly agreed in a writing signed by a legally authorized representative of CST, the following terms apply to Products provided by CST, its affiliates or its distributors. Any Customer's terms and conditions that are in addition to, or different from, those contained herein, unless separately accepted in

writing by a legally authorized representative of CST, are rejected and are of no force or effect.

Products are labeled with For Research Use Only or a similar labeling statement and have not been approved, cleared, or licensed by the FDA or other regulatory foreign or domestic entity, for any purpose. Customer shall not use any Product for any diagnostic or therapeutic purpose, or otherwise in any manner that conflicts with its labeling statement. Products sold or licensed by CST are provided for Customer as the end-user and solely for research and development uses. Any use of Product for diagnostic, prophylactic or therapeutic purposes, or any purchase of Product for resale (alone or as a component) or other commercial purpose, requires a separate license from CST. Customer shall (a) not sell, license, loan, donate or otherwise transfer or make available any Product to any third party, whether alone or in combination with other materials, or use the Products to manufacture any commercial products, (b) not copy, modify, reverse engineer, decompile, disassemble or otherwise attempt to discover the underlying structure or technology of the Products, or use the Products for the purpose of developing any products or services that would compete with CST products or services, (c) not alter or remove from the Products any trademarks, trade names, logos, patent or copyright notices or markings, (d) use the Products solely in accordance with CST Product Terms of Sale and any applicable documentation, and (e) comply with any license, terms of service or similar agreement with respect to any third party products or services used by Customer in connection with the Products.