

## Specification

Component of the 26S proteasome, a multiprotein complex involved in the ATP-dependent degradation of ubiquitinated proteins (PubMed:<a href="http://www.uniprot.org/citations/16815440" target="\_blank">16815440</a>, PubMed:<a href="http://www.uniprot.org/citations/16906146" target="\_blank">16906146</a>, PubMed:<a href="http://www.uniprot.org/citations/16990800" target="\_blank">16990800</a>, PubMed:<a href="http://www.uniprot.org/citations/17139257" target="\_blank">17139257</a>, PubMed:<a href="http://www.uniprot.org/citations/17139257" target="\_blank">17139257</a>)

[18497817](http://www.uniprot.org/citations/18497817), PubMed: [24752541](http://www.uniprot.org/citations/24752541), PubMed: [25702870](http://www.uniprot.org/citations/25702870), PubMed: [25702872](http://www.uniprot.org/citations/25702872)). This complex plays a key role in the maintenance of protein homeostasis by removing misfolded or damaged proteins, which could impair cellular functions, and by removing proteins whose functions are no longer required (PubMed: [16815440](http://www.uniprot.org/citations/16815440), PubMed: [16906146](http://www.uniprot.org/citations/16906146), PubMed: [16990800](http://www.uniprot.org/citations/16990800), PubMed: [17139257](http://www.uniprot.org/citations/17139257), PubMed: [18497817](http://www.uniprot.org/citations/18497817), PubMed: [24752541](http://www.uniprot.org/citations/24752541), PubMed: [25702870](http://www.uniprot.org/citations/25702870), PubMed: [25702872](http://www.uniprot.org/citations/25702872)). Therefore, the proteasome participates in numerous cellular processes, including cell cycle progression, apoptosis, or DNA damage repair (PubMed: [16815440](http://www.uniprot.org/citations/16815440), PubMed: [16906146](http://www.uniprot.org/citations/16906146), PubMed: [16990800](http://www.uniprot.org/citations/16990800), PubMed: [17139257](http://www.uniprot.org/citations/17139257), PubMed: [18497817](http://www.uniprot.org/citations/18497817), PubMed: [24752541](http://www.uniprot.org/citations/24752541), PubMed: [25702870](http://www.uniprot.org/citations/25702870), PubMed: [25702872](http://www.uniprot.org/citations/25702872)). Within the complex, functions as a proteasomal ubiquitin receptor (PubMed: [18497817](http://www.uniprot.org/citations/18497817)). Engages and activates 19S- associated deubiquitinases UCHL5 and PSMD14 during protein degradation (PubMed: [16906146](http://www.uniprot.org/citations/16906146), PubMed: [16990800](http://www.uniprot.org/citations/16990800), PubMed: [17139257](http://www.uniprot.org/citations/17139257), PubMed: [24752541](http://www.uniprot.org/citations/24752541)). UCHL5 reversibly associate with the 19S regulatory particle whereas PSMD14 is an intrinsic subunit of the proteasome lid subcomplex (PubMed: [16906146](http://www.uniprot.org/citations/16906146), PubMed: [16990800](http://www.uniprot.org/citations/16990800), PubMed: [17139257](http://www.uniprot.org/citations/17139257), PubMed: [24752541](http://www.uniprot.org/citations/24752541)).

### Cellular Location

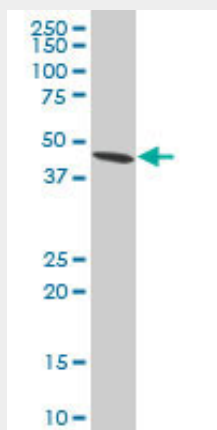
Cytoplasm. Nucleus

### ADRM1 Antibody (clone 3D11) - Protocols

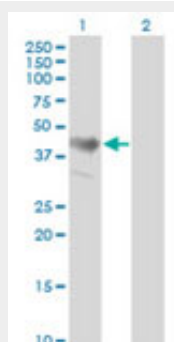
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### ADRM1 Antibody (clone 3D11) - Images



ADRM1 monoclonal antibody (M02), clone 3D11. Western blot of ADRM1 expression in HeLa.



Western blot of ADRM1 expression in transfected 293T cell line by ADRM1 monoclonal antibody...

### **ADRM1 Antibody (clone 3D11) - Background**

Functions as a proteasomal ubiquitin receptor. Recruits the deubiquitinating enzyme UCHL5 at the 26S proteasome and promotes its activity.

### **ADRM1 Antibody (clone 3D11) - References**

- Shimada S.,et al.Cancer Res. 54:3831-3836(1994).
- Hamazaki J.,et al.EMBO J. 25:4524-4536(2006).
- Deloukas P.,et al.Nature 414:865-871(2001).
- Qiu X.-B.,et al.EMBO J. 25:5742-5753(2006).
- Joergensen J.P.,et al.J. Mol. Biol. 360:1043-1052(2006).