



## 26S Proteasome (p32): sc-58311

### BACKGROUND

In eukaryotic cells, selective breakdown of cellular proteins is ensured by their ubiquitination and subsequent degradation by the 26S Proteasome. The 26S Proteasome is a protease complex that selectively breaks down proteins that have been modified by polyubiquitin chains. It is made up of two multisubunit complexes: the 20S Proteasome chamber, which serves as the proteolytic core of the complex; and PA700, an ATPase regulatory complex that mediates the binding, modification and delivery of substrates to the proteolytic chamber. At specific stages of development, embryo- and tissue-specific components of the 26S Proteasome are formed, which are responsible for proteolysis. These components of the 26S Proteasome include Rpn10a (pUb-R2) through Rpn10e (pUb-R5), and can be generated by a single Rpn10 gene by developmentally regulated alternative splicing. The 26S Proteasome system degrades the ERM transcription factor, a member of the E transcription factor family, and regulates its transcription-enhancing activity.

### REFERENCES

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### PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) for detailed protocols and support products.

### SOURCE

26S Proteasome (p32) is a mouse monoclonal antibody raised against 26S Proteasome of *Xenopus laevis* oocytes origin.

### PRODUCT

Each vial contains 1.0 ml culture supernatant containing IgG<sub>1</sub> with < 0.1% sodium azide.

### APPLICATIONS

26S Proteasome (p32) is recommended for detection of the 20S subcomplex within the 26S hetero-oligomeric protein complex and the free cytosolic form of 20S cylinder particles of human and *Xenopus laevis* origin by Western Blotting (starting dilution to be determined by researcher, dilution range 1:10-1:200) and immunofluorescence (starting dilution to be determined by researcher, dilution range 1:10-1:200).

### STORAGE

For immediate and continuous use, store at 4° C for up to one month. For sporadic use, freeze in working aliquots in order to avoid repeated freeze/thaw cycles. If turbidity is evident upon prolonged storage, clarify solution by centrifugation.

### RESEARCH USE

For research use only, not for use in diagnostic procedures.