

For Research Use Only

# Calpain 11 Polyclonal antibody

Catalog Number: 13675-1-AP



## Basic Information

<b>Catalog Number:</b> 13675-1-AP	<b>GenBank Accession Number:</b> BC033733	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 550 µg/ml	<b>GeneID (NCBI):</b> 11131	<b>Recommended Dilutions:</b> WB 1:500-1:2000 IHC 1:50-1:500 IF 1:50-1:500
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q9UMQ6	
<b>Isotype:</b> IgG	<b>Full Name:</b> calpain 11	
<b>Immunogen Catalog Number:</b> AG4668	<b>Calculated MW:</b> 702 aa, 81 kDa	
	<b>Observed MW:</b> 81 kDa	

## Applications

**Tested Applications:**  
IF/ICC, IHC, WB, ELISA

**Species Specificity:**  
human, mouse, rat

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

**Positive Controls:**

WB : PC-3 cells,  
IHC : mouse testis tissue,  
IF : PC-3 cells,

## Background Information

Calpains are a superfamily of related proteins, some of which have been shown to function as intracellular calcium-dependent cysteine proteases. Calpains consist of a variable large (80 kDa) subunit and an invariant small (30 kDa) subunit. The expression of calpain11 during spermatogenesis and its localization in spermatozoa suggest that it is involved in regulating calcium-dependent signal transduction events during meiosis and sperm functional processes (PMID:16541461). And the 110 kDa band protein may be regarded as a complex.

## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

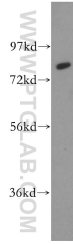
T: 4006900926

E: Proteintech-CN@ptglab.com

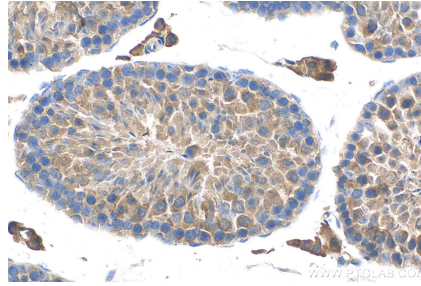
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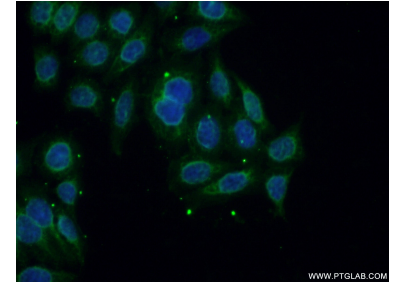
## Selected Validation Data



PC-3 cells were subjected to SDS PAGE followed by western blot with 13675-1-AP (Calpain 11 antibody) at dilution of 1:0 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse testis tissue slide using 13675-1-AP (Calpain 11 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed PC-3 cells using 13675-1-AP (Calpain 11 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).