

À des fins de recherche uniquement

# Anticorps Polyclonal de lapin anti-Calpain 2



Numéro de catalogue: 11472-1-AP

Phare

14 Publications

## Informations de base

Numéro de catalogue:  
11472-1-AP

Taille:  
150ul, Concentration: 450 µg/ml by  
Nanodrop and 300 µg/ml by Bradford  
method using BSA as the standard;

Hôte:  
Lapin

Isotype:  
IgG

Immunogen Catalog Number:  
AG2029

Numéro d'acquisition GenBank:  
BC021303

Identification du gène (NCBI):  
824

Nom complet:  
calpain 2, (m/II) large subunit

MW calculé  
700 aa, 80 kDa

MW observés:  
72-80 kDa

Méthode de purification:  
Purification par affinité contre  
l'antigène

Dilutions recommandées:  
WB 1:2000-1:10000  
IHC 1:50-1:500  
IF 1:10-1:100

## Applications

Applications testées:  
IF, IHC, IP, WB, ELISA

Demandes citées:  
IF, IHC, WB

Spécificité de l'espèce:  
Humain, rat, souris

Espèces citées:  
Humain, rat, souris

**Remarque-IHC: il est suggéré de démasquer  
l'antigène avec un tampon de TE buffer pH  
9,0; (\*) À défaut, 'le démasquage de  
l'antigène peut être 'effectué avec un  
tampon citrate pH 6,0.**

Contrôles positifs:

WB : cellules A549, cellules C2C12, cellules HeLa,  
cellules K-562, cellules MDA-MB-231, cellules PC-3,  
cellules Y79, tissu cérébral de rat, tissu cérébral de  
souris, tissu placentaire humain

IHC : tissu rénal humain, tissu de cancer du côlon  
humain, tissu de cancer du foie humain

IF : cellules HepG2, cellules MDA-MB-231

## Informations générales

Calpain 2 (Calpain-2 catalytic subunit) is also named as CANPL2, CANPml, mCANP, FLJ39928 and belongs to the peptidase C2 family. N-terminal sequencing of CAPN2 purified from human liver indicates that the N-terminal methionine is removed, resulting in a mature 699-amino acid subunit with a calculated molecular mass of 79.9 kD (PMID:2852952). It is a calcium-regulated non-lysosomal thiol-protease which catalyzes limited proteolysis of substrates involved in cytoskeletal remodelling and signal transduction. It has 2 isoforms produced by alternative splicing with the molecular weight of 80 kDa and 71 kDa.

## Publications notables

| Autrice       | Pubmed ID | Journal       | Application |
|---------------|-----------|---------------|-------------|
| Shuchao Wang  | 30240910  | Ann Anat      | WB, IF      |
| Wen Tian      | 35598715  | Pharmacol Res | IF          |
| Takaya Kotani | 33991444  | Physiol Rep   | WB          |

## Stockage

Stockage:  
Stocker à -20°C. Stable pendant un an après l'expédition.

Tampon de stockage:  
PBS avec azoture de sodium à 0,02 % et glycérol à 50 % pH 7,3  
L'aliquotage n'est pas nécessaire pour le stockage à -20C

\*\*\* Les 20ul contiennent 0,1% de BSA.

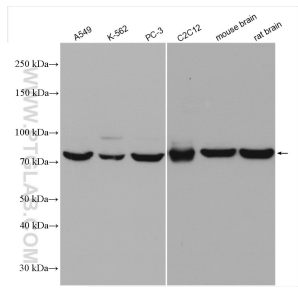
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free  
in USA), or 1(312) 455-8498 (outside USA)

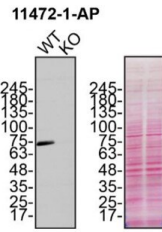
E: proteintech@ptglab.com  
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

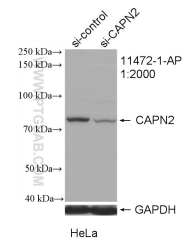
## Données de validation sélectionnées



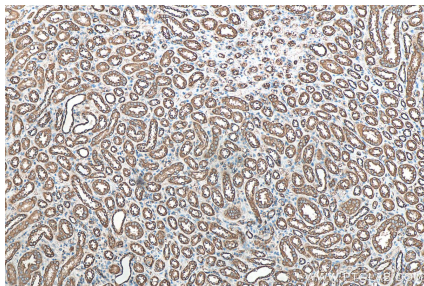
Various lysates were subjected to SDS PAGE followed by western blot with 11472-1-AP (Calpain 2 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



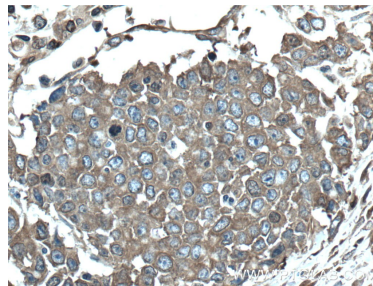
MDA-MB-231 (WT and CAPN2 KO) lysates prepared with RIPA buffer, 50 µg protein loaded. 11472-1-AP incubated at 1:500 at 4°C overnight in 5% BSA in TBST. Ponceau stained transfers shown on right. Data provided by YCharOS, an open science company with a mission to validate commercial antibodies to improve scientific reproducibility and transparency.



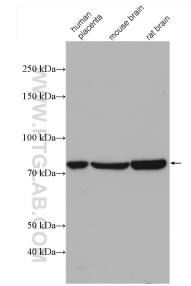
WB result of Calpain 2 antibody (11472-1-AP; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-Calpain 2 transfected HeLa cells.



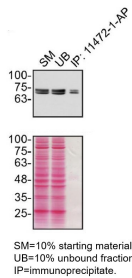
Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 11472-1-AP (Calpain 2 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



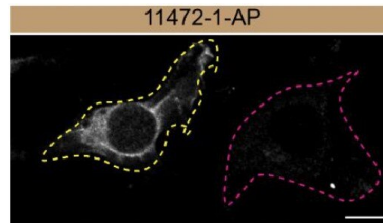
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 11472-1-AP (Calpain 2 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



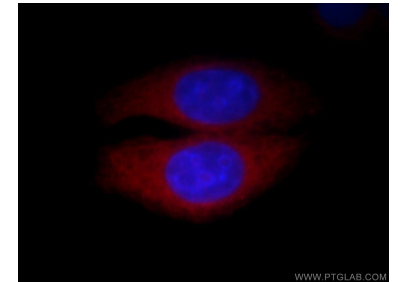
Various lysates were subjected to SDS PAGE followed by western blot with 11472-1-AP (Calpain 2 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



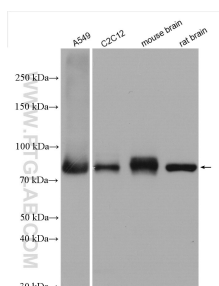
MDA-MB-231 lysates prepared and IP of CAPN2 performed using 1.0 µg of 11472-1-AP coupled to protein A- Sepharose beads. Data provided by YCharOS, an open science company with a mission to validate commercial antibodies to improve scientific reproducibility and transparency.



MDA-MB-231 WT cells (yellow outline) and SYT1 KO cells (red outline) labelled with a green or a far red fluorescence dye, respectively. Cells fixed with 4% PFA and stained with 11472-1-AP at 1:300, plus DAPI. Bars = 10 µm. Data provided by YCharOS, an open science company with a mission to validate commercial antibodies to improve scientific reproducibility and transparency.



Immunofluorescent analysis of HepG2 cells, using CAPN2 antibody 11472-1-AP at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red). Blue pseudocolor = DAPI (fluorescent DNA dye).



Various lysates were subjected to SDS PAGE followed by western blot with 11472-1-AP (Calpain 2 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.