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Datasheet for ABIN731860

## anti-Calpain 2 antibody (AA 301-400) (Biotin)

### Overview

Quantity:	100 µL
Target:	Calpain 2 (CAPN2)
Binding Specificity:	AA 301-400
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Calpain 2 antibody is conjugated to Biotin
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

### Product Details

Immunogen:	KLH conjugated synthetic peptide derived from mouse Calpain 2
Isotype:	IgG
Cross-Reactivity:	Human, Mouse
Predicted Reactivity:	Rat,Dog,Cow,Sheep
Purification:	Purified by Protein A.

### Target Details

Target:	Calpain 2 (CAPN2)
Alternative Name:	Calpain 2 ( <a href="#">CAPN2 Products</a> )

## Target Details

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**Background:** Synonyms: Calcium activated neutral proteinase 2, Calcium activated neutral proteinase, CALP80, Calpain 2 m/II large subunit, Calpain 2 catalytic subunit, Calpain 2 large catalytic subunit, Calpain 2 large subunit, Calpain large polypeptide L2, Calpain M type, Calcium-activated neutral proteinase 2, CALP80, Calpain 2, large [catalytic] subunit, Calpain M-type, Calpain-2 catalytic subunit, Calpain-2 large subunit, CAN2\_MOUSE, M-calpain, Millimolar-calpain, Calpain2, CANP 2, CANP L2, CANP2, CANPL 2, CANPL2, CANPml, Capa2, CAPN 2, CAPN2, FLJ39928, M calpain, M calpin, M type, mCANP, Millimolar calpain.

**Background:** Calpain, and m calpain, also known as Calpain 2, are intracellular, calcium dependent cysteine proteases. Mu calpain has a micromolar sensitivity (thus the mu) as compared to the millimolar calcium sensitivity of m calpain. Both Calpains 1 and 2 are composed of an 80 kD subunit and a 30 kD subunit. Whereas the 30 kDa subunit is shared by both enzymes, the larger catalytic subunits are different and exhibit the distinct Ca<sup>++</sup> requirements that are suggested by their names. The calpains have papain like activity, thus the pain nomenclature. Both Calpain 1 and Calpain 2 are ubiquitously expressed, and are countered by the endogenous calpain inhibitor, calpastatin. Other calpain family members (calpain 94, ncl2, ncl3, etc) have more limited tissue distribution, and perhaps different functions. The calpain family members consist of a common small subunit (Calpain 4), and a large variable subunit. It is not clear that all calpains contain a small subunit. Domains in the large subunit include the amino terminal domain I, the proteinase domain II, domain III, and the EF hand domain IV. The calpains appear to serve multiple physiological roles, and ideas concerning the functions of these enzymes are in a state of rapid flux.

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**Gene ID:** 824

## Application Details

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**Application Notes:** WB 1:300-5000  
IHC-P 1:200-400  
IHC-F 1:100-500

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**Restrictions:** For Research Use only

## Handling

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**Format:** Liquid

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**Concentration:** 1 µg/µL

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**Buffer:** Aqueous buffered solution containing 0.01M TBS (pH 7.4) with 1 % BSA, 0.03 % Proclin300 and

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## Handling

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50 % Glycerol.

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Preservative: ProClin

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Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.

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Storage: -20 °C

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Storage Comment: Store at -20°C for 12 months.

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Expiry Date: 12 months