### bs-1599R

- DATASHEET -

# [ Primary Antibody ]

# Calpain 2 Rabbit pAb



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DATASHE	- 1				
Host:	Rabbit	<b>lsotype:</b> IgG	Applications	<b>WB</b> (1:500-2000)	
Clonality: Polyclonal			IHC-P (1:100-500) IHC-F (1:100-500)		
Target: Calpain 2				<b>IF</b> (1:100-500)	
Immunogen:	<ul> <li>Immunogen: KLH conjugated synthetic peptide derived from mouse Calpain 2: 301-400/700.</li> <li>Purification: affinity purified by Protein A</li> </ul>			Human, Mouse (predicted: Rat, Sheep, Cow, Dog)	
Purification:					
Concentration: 1mg/ml			Predicted		
Storage:	<b>Storage:</b> 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.			Predicted MW.: <sup>78 kDa</sup>	
		-20°C for one year. Avoid repeated	Subcellula Location	Cell membrane ,Cytoplasm	
Background:	calcium dependent cysi micromolar sensitivity ( calcium sensitivity of m composed of an 80 kD s kDa subunit is shared by subunits are different at that are suggested by th The calpains have papa Both Calpain 1 and Calp countered by the endog Other calpain family mer more limited tissue dist The calpain family mer (Calpain 4), and a large calpains contain a smal include the amino term domain III, and the EF h serve multiple physiolog	also known as Calpain 2, are intracellular, teine proteases. Mu calpain has a thus the mu) as compared to the millimolar calpain. Both Calpains 1 and 2 are ubunit and a 30 kD subunit. Whereas the 30 y both enzymes, the larger catalytic nd exhibit the distinct Ca++ requirements heir names. in like activity, thus the pain nomenclature. Dain 2 are ubiquitously expressed, and are genous calpain inhibitor, calpastatin. embers (calpain 94, ncl2, ncl3, etc) have ribution, and perhaps different functions. abers consist of a common small subunit variable subunit. It is not clear that all l subunit. Domains in the large subunit inal domain I, the proteinase domain II, and domain IV. The calpains appear to gical roles, and ideas concerning the mes are in a state of rapid flux.			

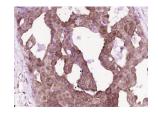
#### - VALIDATION IMAGES -



Sample: NIH/3T3(Mouse) Cell Lysate at 30 ug Primary: Anti-Calpain 2 (bs-1599R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 78 kD Observed band size: 78 kD

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Sample: Brain (Mouse) Lysate at 40 ug Primary: Anti- Calpain 2(bs-1599R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 78 kD Observed band size: 90 kD



Paraformaldehyde-fixed, paraffin embedded (human breast carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Calpain 2) Polyclonal Antibody, Unconjugated (bs-1599R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

## - SELECTED CITATIONS -----

- [IF=6.064] Mengni Bao. et al. N-Acetylcysteine, an ROS Inhibitor, Alleviates the Pathophysiology of Hyperthyroidism-Induced Cardiomyopathy via the ROS/Ca2+ Pathway. BIOMOLECULES. 2022 Sep;12(9):1195 WB ;Mouse,Rat. 10.3390/biom12091195
- [IF=2.9] Xiaoyue Guan. et al. Ginsenoside Rb1 ameliorates apical periodontitis via suppressing macrophage pyroptosis. ORAL DIS. 2024 Aug;: IHC,IF,WB ;Human. 39155466