## #11991 Store at -20C

## Calumenin (4C6) Mouse mAb



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Applications: WB, IF-IC	Reactivity: H M R Mk	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 47	Source/Isotype: Mouse IgG1	UniProt ID: #O43852	Entrez-Gene Id: 813	
Product Usage Information	Ар	plication				Dilution	
	We	stern Blotting				1:1000	
	Imr	munofluorescence (	Immunocytochen	nistry)		1:50	
Storage	•	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at $-20^{\circ}$ C. Do not aliquot the antibody.					
Specificity / Sensiti	i <b>vity</b> Calı	Calumenin (4C6) Mouse mAb recognizes endogenous levels of total calumenin protein.					
Source / Purificatio		Monoclonal antibody is produced by immunizing animals with a recombinant protein specific to the carb terminus of human calumenin protein.					
Background	49/E (ER corn to th thro seru trans	Calumenin belongs to the CREC family of proteins that also contains reticulocalbin, ERC-55/TCBP-49/E6BP, Cab45, and crocalbin/CBP-50. These EF-hand proteins localize to the endoplasmic reticulum (ER) and are involved in the secretory pathway in mammalian cells (1). Calumenin exists as two isoforms corresponding to alternativly spliced variants of the CALU gene (2). Calumenin has been shown to localize to the ER via a carboxy terminal HDEF ER retention signal (3), and undergoes secretion after trafficking through the secretory pathway (4). Secreted calumenin plays a role in amyloidosis by interacting with serum amyloid P component (5). Calumenin is also a chaperone for mutants of the cystic fibrosis transmembrane conductance regulator (CFTR) (6). Researchers performing a proteomics analysis of endometrial cancer identified calumenin as a potential target for endometrial carcinoma (7).					
Background Refere	2. Ju 3. Ya 4. Vo	<ol> <li>Honoré, B. and Vorum, H. (2000) FEBS Lett 466, 11-8.</li> <li>Jung, D.H. et al. (2006) Biochem Biophys Res Commun 343, 34-42.</li> <li>Yabe, D. et al. (1997) J Biol Chem 272, 18232-9.</li> <li>Vorum, H. et al. (1999) Exp Cell Res 248, 473-81.</li> <li>Vorum, H. et al. (2000) FEBS Lett 465, 129-34.</li> </ol>					

**Species Reactivity** 

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

**Western Blot Buffer** 

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

**Applications Key** 

WB: Western Blotting IF-IC: Immunofluorescence (Immunocytochemistry)

**Cross-Reactivity Key** 

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

6. Teng, L. et al. (2012) *PLoS One* 7, e40173.7. Voisin, S.N. et al. (2011) *PLoS One* 6, e16352.

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