

**bs-7115R****[ Primary Antibody ]****Bioss**  
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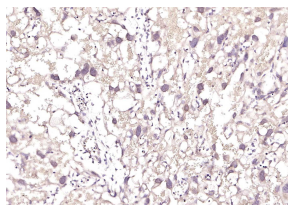
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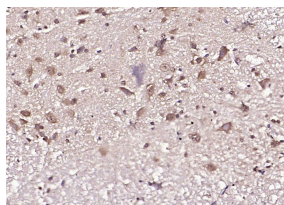
400-901-9800

**MLC1 Rabbit pAb****— DATASHEET —**

|   |                      |   |
|---|----------------------|---|
| <b>Host:</b> Rabbit   | <b>Isotype:</b> IgG  | <b>Applications:</b> IHC-P (1:100-500)<br>IHC-F (1:100-500)<br>IF (1:100-500)<br><br><b>Reactivity:</b> Mouse, Rat<br>(predicted: Human, Rabbit,<br>Pig, Dog, Horse)<br><br><b>Predicted<br/>MW.:</b> 41 kDa<br><br><b>Subcellular<br/>Location:</b> Cell membrane ,Cytoplasm |
| <b>Clonality:</b> Polyclonal  |                      |   |
| <b>GeneID:</b> 23209  | <b>SWISS:</b> Q15049 |   |
| <b>Target:</b> MLC1   |                      |   |
| <b>Immunogen:</b> KLH conjugated synthetic peptide derived from human MLC1:<br>321-377/377.   |                      |   |
| <b>Purification:</b> affinity purified by Protein A   |                      |   |
| <b>Concentration:</b> 1mg/ml  |                      |   |
| <b>Storage:</b> 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50%<br>Glycerol.<br>Shipped at 4°C. Store at -20°C for one year. Avoid repeated<br>freeze/thaw cycles.  |                      |   |
| <b>Background:</b> MLC1 is a 377 amino acid multi-pass membrane protein that may<br>serve as a non-selective neuronal cation channel in brain. Mutant<br>MLC1 proteins that show impaired folding have been corrected in<br>vitro with the addition of a Ca(2+)-ATPase inhibitor, curcumin.<br>Mutations in the gene encoding MLC1 is the cause of<br>megaloencephalic leukoencephalopathy with subcortical cysts, also<br>known as van der Knaap disease, a rare syndrome characterized<br>early in life by progressive brain destruction causing mental<br>retardation and incoordination. Single nucleotide polymorphisms<br>within the MLC1 gene may be associated with periodic catatonia,<br>but there seems to be conflicting evidence on whether or not the<br>gene is implicated in general schizophrenia. |                      |   |

**— VALIDATION IMAGES —**

Paraformaldehyde-fixed, paraffin embedded (rat placenta); 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; Incubation with (MLC1) Polyclonal Antibody, Unconjugated (bs-7115R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (mouse bone marrow); 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; Incubation with (MLC1) Polyclonal Antibody, Unconjugated (bs-7115R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

**— SELECTED CITATIONS —**

- **[IF=12.2]** Zi-Yan Hu. et al. AHR activation relieves deoxynivalenol-induced disruption of porcine intestinal epithelial barrier functions. J HAZARD MATER. 2024 Dec;480:136095 WB ;Porcine. 39395393
- **[IF=8.713]** Zhao-Bo Luo. et al. Fecal transplant from myostatin deletion pigs positively impacts the gut-muscle axis. ELIFE. 2023; 12: e81858 WB ;Mouse. 37039469

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

- **[IF=5.168]** Gu et al. Fasudil attenuates soluble fms-like tyrosine kinase-1 (sFlt-1)-induced hypertension in pregnant mice through RhoA/ROCK pathway. (2017) Oncotarget. 8:104104-104112 WB ;Mouse. 29262624
- **[IF=3.4]** Yijie Liu. et al. Electroacupuncture improves retinal function in myopia Guinea pigs probably via inhibition of the RhoA/ROCK2 signaling pathway. HELIYON. 2024 Aug;10: WB ;Guinea pig. 39170407