

**RABBIT ANTI-CALPAIN LP82 and LP85 (lens specific Calpain) LARGE SUBUNIT  
POLYCLONAL ANTIBODY**

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<b>CATALOG NUMBER:</b>	AB81011	<b>QUANTITY:</b>	100 µg
<b>LOT NUMBER:</b>		<b>CONCENTRATION:</b>	1 mg/mL
<b>BACKGROUND:</b>	LP85-calpain, also known as lens specific calpain, is an intracellular, calcium-dependent cysteine protease. LP85-calpain is almost identical to LP82-calpain, only an insert distinguishes them. The calpains have papain-like activity, thus the -pain nomenclature. Unlike m-calpain and µ-calpain, which are ubiquitously expressed, LP82 and LP85-calpain were originally identified in rat lens. Like other calpains, the endogenous calpain inhibitor, calpastatin, counters LP82 and LP85. Because of limited distribution and sequence differences, LP82 and LP85-calpains are thought to have different roles than the other calpain family members.		
<b>SPECIFICITY:</b>	Reacts with the cysteine protease, LP82/LP85-calpain large subunit. The antibody is specific for LP85-calpain and does not react with the other calpain family members (m-calpain, µ-calpain, calpain-94, ncl-2, ncl-3, etc.) This antibody recognizes both latent and active LP82 and LP85-calpain; the latent large subunit is 82 kDa and 85 kDa, and the amino terminal truncation at activation yields an approximately 60 kDa and 62 kDa form.		
<b>IMMUNOGEN:</b>	Synthetic peptide based on the carboxy-terminal end of the domain-III from LP82-calpain large subunit, based on the rat sequence.		
<b>APPLICATIONS:</b>	Western blot: 1:1000 for colorimetric substrates or 1:5000 for chemiluminescent substrates (recommended starting concentration). ELISA Immunohistochemistry Immunoprecipitation <i>Optimal working dilutions must be determined by the end user</i>		
<b>SPECIES REACTIVITY:</b>	Rat. Reactivity with other species has not been confirmed.		
<b>FORMAT:</b>	Affinity purified immunoglobulin.		
<b>PRESENTATION:</b>	Liquid in 0.01M PBS, pH 7.4 with 15mM sodium azide as a preservative and 50% glycerol as a stabilizer.		
<b>STORAGE/HANDLING:</b>	Maintain at -20°C in undiluted aliquots for up to 12 months. Avoid repeated freeze/thaw cycles.		

**Important Note:** *During shipment, small volumes of product will occasionally become entrapped in the seal of the product vial. For products with volumes of 200 µL or less, we recommend gently tapping the vial on a hard surface or briefly centrifuging the vial in a tabletop centrifuge to dislodge any liquid in the container's cap.*

***For research use only; not for use as a diagnostic.***

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