



## RABBIT ANTI-CALCIUM TRANSPORTER 1 AFFINITY PURIFIED POLYCLONAL ANTIBODY

<b>CATALOG NUMBER:</b>	AB15500
<b>LOT NUMBER:</b>	
<b>QUANTITY:</b>	50 µg
<b>CONCENTRATION:</b>	1 mg/mL
<b>SPECIFICITY:</b>	Calcium transporter 1 (CaT-1, ECAC2). The immunogen sequence has no significant homology with CaT-2 or other proteins.
<b>BACKGROUND:</b>	CaT-1 (rat/mouse 727 aa; human 725 aa, chromosome 7q33-q34; ~85 kDa) is also known as ECAC2, CAT-like (CATL) or TRPV6 (transient receptor potential cation channel, subfamily V, member 6) contains a cytoplasmic N-terminus, 6 ankyrin repeat domains, 6 transmembrane domains, an extracellular pore region between TM5-6, and cytoplasmic C-terminus. CaT-1 shows 75% sequence identity to epithelial Ca <sup>++</sup> channel (ECaC) protein from rabbit kidney. In rat, CaT-1 transcript (3-Kb) is expressed in duodenum, proximal jejunum cecum and colon but not in kidney; whereas ECaC in rabbit is expressed in apical cell membranes in distal part of nephron (kidney), duodenum, jejunum and placenta.
<b>IMMUNOGEN:</b>	Synthetic peptide near the C-terminus of rat CaT-1.
<b>APPLICATIONS:</b>	Western blot: 1-10 µg/mL using ECL. The expected size of CaT-1 is ~83 kDa. However, posttranslational modification may alter its size depending upon the species and cell type. Immunohistochemistry: Not tested. It is recommended that the antibody be tried at 2-20 µg/mL ELISA: 1:10,000-1:100,000 using 50-100 ng of control peptide/well. Optimal working dilutions must be determined by end user.
<b>SPECIES REACTIVITIES:</b>	Rat. Other species have not yet been tested. The immunogen sequence is 100% conserved in mouse, 88% in humans and 94% in Cat-1/htrp8A and htrp8b proteins.
<b>FORMAT:</b>	Affinity purified immunoglobulin.
<b>PRESENTATION:</b>	Liquid in PBS with 0.1% BSA .
<b>STORAGE/HANDLING:</b>	Maintain at -20°C in undiluted aliquots for up to 6 months after date of receipt. 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.*

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