

## Rabbit Anti-Ensconsin/AP Conjugated antibody

SL5718R-AP

<b>Product Name</b>	Anti-Ensconsin/AP
<b>Chinese Name</b>	碱性磷酸酶（AP）标记的 epithelial cells 微管相关蛋白 7 抗体
<b>Alias</b>	E MAP 115; EMAP115; Epithelial microtubule associated protein of 115 kDa; MAP 7; MAP7; Microtubule associated protein 7; MAP7_HUMAN.
<b>Research Area</b>	Tumour Cell biology immunology Developmental biology Signal transduction Stem cells
<b>Immunogen Species</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>React Species</b>	(predicted:Human,Mouse,Rat,Dog,Pig,Cow,Rabbit,Sheep) IHC-P=1:100-500,IHC-F=1:100-500,ELISA=1:500-5000
<b>Applications</b>	not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight</b>	84kDa
<b>Form</b>	Lyophilized or Liquid
<b>Concentration</b>	1mg/ml
<b>immunogen</b>	KLH conjugated synthetic peptide derived from human Ensconsin
<b>Lsotype</b>	IgG
<b>Purification</b>	affinity purified by Protein A
<b>Storage Buffer</b>	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
<b>Storage</b>	
<b>Product Detail</b>	<b>background:</b> Ensconsin is a microtubule associated protein that is predominantly expressed in cells of epithelial origin. Microtubule associated proteins are thought to be involved in microtubule dynamics, which is essential for cell polarization and differentiation. This protein has been shown to be able to stabilize

microtubules, and may serve to modulate microtubule functions. Studies of the related mouse protein also suggested an essential role in microtubule function required for spermatogenesis.

**Function:**

Microtubule-stabilizing protein that may play an important role during reorganization of microtubules during polarization and differentiation of epithelial cells. Associates with microtubules in a dynamic manner. May play a role in the formation of intercellular contacts. Colocalization with TRPV4 results in the redistribution of TRPV4 toward the membrane and may link cytoskeletal microfilaments.

**Subunit:**

Interacts with TRPV4 (By similarity).

**Subcellular Location:**

Cytoplasm, perinuclear region. Basolateral cell membrane. Cytoplasm, cytoskeleton. Note=Colocalized on microtubules. An intracellular redistribution is triggered during induction of keratinocyte terminal differentiation from microtubules with a perinuclear localization to cortical microtubules organized in spike-like bundles facing intercellular contacts.

**Tissue Specificity:**

Expressed in the skin and cells of epithelial origin. Predominantly expressed in the suprabasal layers of the normal epidermis and relatively abundant in squamous cell carcinomas but barely detectable in basal cell carcinomas.

**Post-translational modifications:**

The association with microtubules is regulated by phosphorylation during the cell cycle. During interphase only phosphorylated on serine. Phosphorylated on threonine in mitosis.

**Similarity:**

Belongs to the MAP7 family.

**Database links:**

[Entrez Gene: 9053](#) Human

[Entrez Gene: 17761](#) Mouse

[Omim: 604108](#) Human

[SwissProt: Q14244](#) Human



[SwissProt: O88735](#) Mouse

[Unigene: 486548](#) Human

[Unigene: 20928](#) Mouse

**Important Note:**

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