

## **EML1 Polyclonal Antibody**

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP55634

## **Product Information**

**Application** WB, IHC-P, IHC-F, IF, ICC, E

Primary Accession 000423

**Reactivity** Rat, Dog, Bovine

Host Rabbit
Clonality Polyclonal
Calculated MW 89861
Physical State Liquid

Immunogen KLH conjugated synthetic peptide derived from human EML1

**Epitope Specificity** 751-815/815

**Isotype** IgG

**Purity** affinity purified by Protein A

**Buffer** 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

**SUBCELLULAR LOCATION** Cytoplasm; cytoskeleton.

**SIMILARITY** Belongs to the WD repeat EMAP family. Contains 10 WD repeats.

**Important Note**This product as supplied is intended for research use only, not for use in

human, therapeutic or diagnostic applications.

**Background Descriptions** Human echinoderm microtubule-associated protein-like is a strong candidate

for the Usher syndrome type 1A gene. Usher syndromes (USHs) are a group of genetic disorders consisting of congenital deafness, retinitis pigmentosa, and vestibular dysfunction of variable onset and severity depending on the genetic type. The disease process in USHs involves the entire brain and is not limited

type. The disease process in USHs involves the entire brain and is not limit to the posterior fossa or auditory and visual systems. The USHs are

catagorized as type I (USH1A, USH1B, USH1C, USH1D, USH1E and USH1F), type II (USH2A and USH2B) and type III (USH3). The type I is the most severe

form. Gene loci responsible for these three types are all mapped. Two transcript variants encoding different isoforms have been found for this gene.

[provided by RefSeq, Jul 2008]

## **Additional Information**

**Gene ID** 2009

Other Names Echinoderm microtubule-associated protein-like 1, EMAP-1, HuEMAP-1, EML1,

EMAP1, EMAPL, EMAPL1

Target/Specificity Ubiquitous; expressed in most tissues with the exception of thymus and

peripheral blood lymphocytes.

**Dilution** WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC=1:100-500,IF=1:100-50

0,ELISA=1:5000-10000

Format 0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce

**Storage** Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When

reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody

is stable for at least two weeks at 2-4 °C.

## **Protein Information**

Name EML1

Synonyms EMAP1, EMAPL, EMAPL1

**Function** Modulates the assembly and organization of the microtubule cytoskeleton,

and probably plays a role in regulating the orientation of the mitotic spindle and the orientation of the plane of cell division. Required for normal proliferation of neuronal progenitor cells in the developing brain and for normal brain development. Does not affect neuron migration per se.

**Cellular Location** Cytoplasm {ECO:0000250|UniProtKB:Q05BC3}. Cytoplasm, perinuclear region

{ECO:0000250 | UniProtKB:Q05BC3} Cytoplasm, cytoskeleton. Note=Detected in cytoplasmic punctae. Co- localizes with microtubules (PubMed:24859200, PubMed:25740311) Enriched in perinuclear regions during interphase and in the region of spindle microtubules during metaphase. Enriched at the midzone during telophase and cytokinesis. Detected at growth cones in

neurons (By similarity). {ECO:0000250 | UniProtKB:Q05BC3,

ECO:0000269 | PubMed:24859200, ECO:0000269 | PubMed:25740311}

**Tissue Location** Ubiquitous; expressed in most tissues with the exception of thymus and

peripheral blood lymphocytes

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.