

Rabbit EML4 Polyclonal Antibody | anti-EML4 antibody

Anti-EML4 Antibody

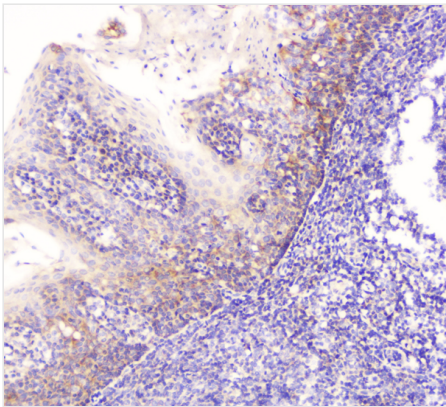
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA124912	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

EML4; Polyclonal Antibody; Anti-EML4 Antibody; Echinoderm microtubule-associated protein-like 4; EMAP-4; Restrictedly overexpressed proliferation-associated protein; Ropp 120; C2orf2; EMAPL4; Echinoderm microtubule associated protein like 4; anti-EML4 antibody

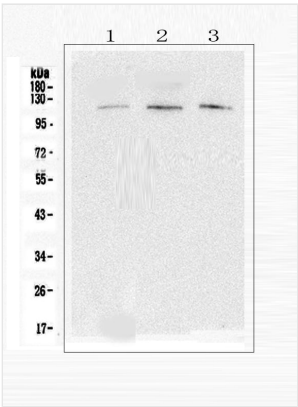
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	No cross reactivity with other proteins.
Purity/Purification	Immunogen Affinity Purified
Form/Format	Lyophilized
Sequence Length	923
Applicable Applications for anti-EML4 antibody	ELISA (Direct ELISA), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	E Coli-derived human EML4 recombinant protein (Position: K207-N423).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Relevant Detection Systems	It is recommended to use an Enhanced Chemiluminescent Kit with anti-Rabbit IgG for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit for IHC-P.
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.



IHC (Immunohistochemistry)

Figure 3. IHC analysis of EML4 using anti-EML4 antibody. EML4 was detected in paraffin-embedded section of human gastric cancer tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-EML4 antibody. EML4 was detected in paraffin-embedded section of human gastric cancer tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-EML4 antibody. EML4 was detected in paraffin-embedded section of human lung cancer tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-EML4 antibody. EML4 was detected in paraffin-embedded section of human glioma tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-EML4 antibody. EML4 was detected in paraffin-embedded section of human placenta tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-EML4 antibody. EML4 was detected in paraffin-embedded section of human rectal cancer tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-EML4 antibody. EML4 was detected in paraffin-embedded section of human sarcoma tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-EML4 antibody. EML4 was detected in paraffin-embedded section of human tonsil tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-EML4 Antibody overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



WB (Western Blot)

Figure 1. Western blot analysis of EML4 using anti-EML4 antibody. Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: rat brain tissue lysates, Lane 2: mouse brain tissue lysates, Lane 3: mouse lung tissue lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-EML4 antigen affinity purified polyclonal antibody at 0.5 ug/ml overnight at 4 degree C, then washed with TBS-0.1% Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for EML4 at approximately 120KD. The expected band size for EML4 is at 109KD.

ADDITIONAL INFORMATION

Related Product Information for anti-EML4 antibody	Description: Rabbit IgG polyclonal antibody for EML4 detection. Tested with WB, IHC-P, Direct ELISA in Human; Mouse; Rat. Background: Echinoderm microtubule-associated protein-like 4 is a protein that in humans is encoded by the EML4gene. This gene is a member of the echinoderm microtubule associated protein-like family, and it mapped to 2p21. The encoded WD-repeat protein may be involved in microtubule formation. Abnormal fusion of parts of this gene with portions of the anaplastic lymphoma receptor tyrosine kinase gene, which generates EML4-ALK fusion transcripts, is one of the primary mutations associated with non-small cell lung cancer. Alternative splicing of this gene results in two transcript variants.
References	1. Heidebrecht, H. J., Buck, F., Pollmann, M., Siebert, R., Parwaresch, R. Cloning and localization of C2orf2- ropp120, a previously unknown WD repeat protein. Genomics 68: 348-350, 2000. 2. Maddalo, D., Manchado, E., Concepcion, C. P., Bonetti, C., Vidigal, J. A., Han, Y.-C., Ogradowski, P., Crippa, A., Rekhman, N., de Stanchina, E., Lowe, S. W., Ventura, A. In vivo engineering of oncogenic chromosomal rearrangements with the CRISPR/Cas9 system.Nature 516: 423-427, 2014. Note: Erratum: Nature 524: 502 only, 2015.

NCBI AND UNIPROT INFORMATION

NCBI GI #	223029510
NCBI GeneID	27436
NCBI Accession #	NP_001138548.1
NCBI GenBank Nucleotide #	NM_001145076.2
UniProt Accession #	Q9HC35; Q3SWW0; Q53R29; Q53TW8; Q6PJ45; Q9NV40; A6H8Y6; B2RBK3; B2RTW7; B5MCW9
Molecular Weight	102,444 Da
NCBI Official Full Name	echinoderm microtubule-associated protein-like 4 isoform b
NCBI Official Synonym Full Names	EMAP like 4
NCBI Official Symbol	EML4
NCBI Official Synonym Symbols	C2orf2; ELP120; EMAP-4; EMAPL4; ROPP120
NCBI Protein Information	echinoderm microtubule-associated protein-like 4
UniProt Protein Name	Echinoderm microtubule-associated protein-like 4
UniProt Gene Name	EML4
UniProt Synonym Gene Names	C2orf2; EMAPL4; EMAP-4

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/eml4-antibody-direct-elisa-immunohistochemistry-western-blot-elisa/124912>