



Rabbit Anti-EMP-1 antibody

SL0558R

Product Name:	EMP-1
Chinese Name:	表皮膜蛋白1抗体
Alias:	CL-20; EMP 1; EMP1; EMP1_HUMAN; Epithelial membrane protein 1; Protein B4B; TMP; Tumor-associated membrane protein.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800Flow-Cyt=3ug/TestIF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	17kDa
Cellular localization:	The cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from mouse Emp1:101-160/160
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	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 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	Epithelial membrane protein-1 (EMP-1) is a four pass transmembrane protein consisting of 160 amino acids. It is a member of a small family of epithelial membrane proteins. EMP-1 is very similar in structure to its close relative, Peripheral Myelin Protein 22 (PMP22). It is most predominantly expressed in tissues of the gastrointestinal tract but has also been found to be a junctional protein in the liver expressed along the intercellular border. EMP-1 directly interacts with the C-terminus of the P2X7 receptor

and may be involved in membrane blebbing. EMP-1 may also be an important regulator in cell communication, signaling, and adhesion. When EMP-1 is overexpressed, cell proliferation is inhibited, S phase is arrested and G1 phase is prolonged in esophageal cancer cells. EMP-1 may play a role in tumorigenesis and has been identified as a biomarker for gefitinib treatment resistance for patients with lung cancer.

Subcellular Location:

Membrane; Multi-pass membrane protein.

Tissue Specificity:

Most prominently found in the gastrointestinal tract, skin, lung, and brain but not in liver.

Similarity:

Belongs to the PMP-22/EMP/MP20 family.

SWISS:

P47801

Gene ID:

2012

Database links:

[Entrez Gene: 2012](#)Human

[Omim: 602333](#)Human

[SwissProt: P54849](#)Human

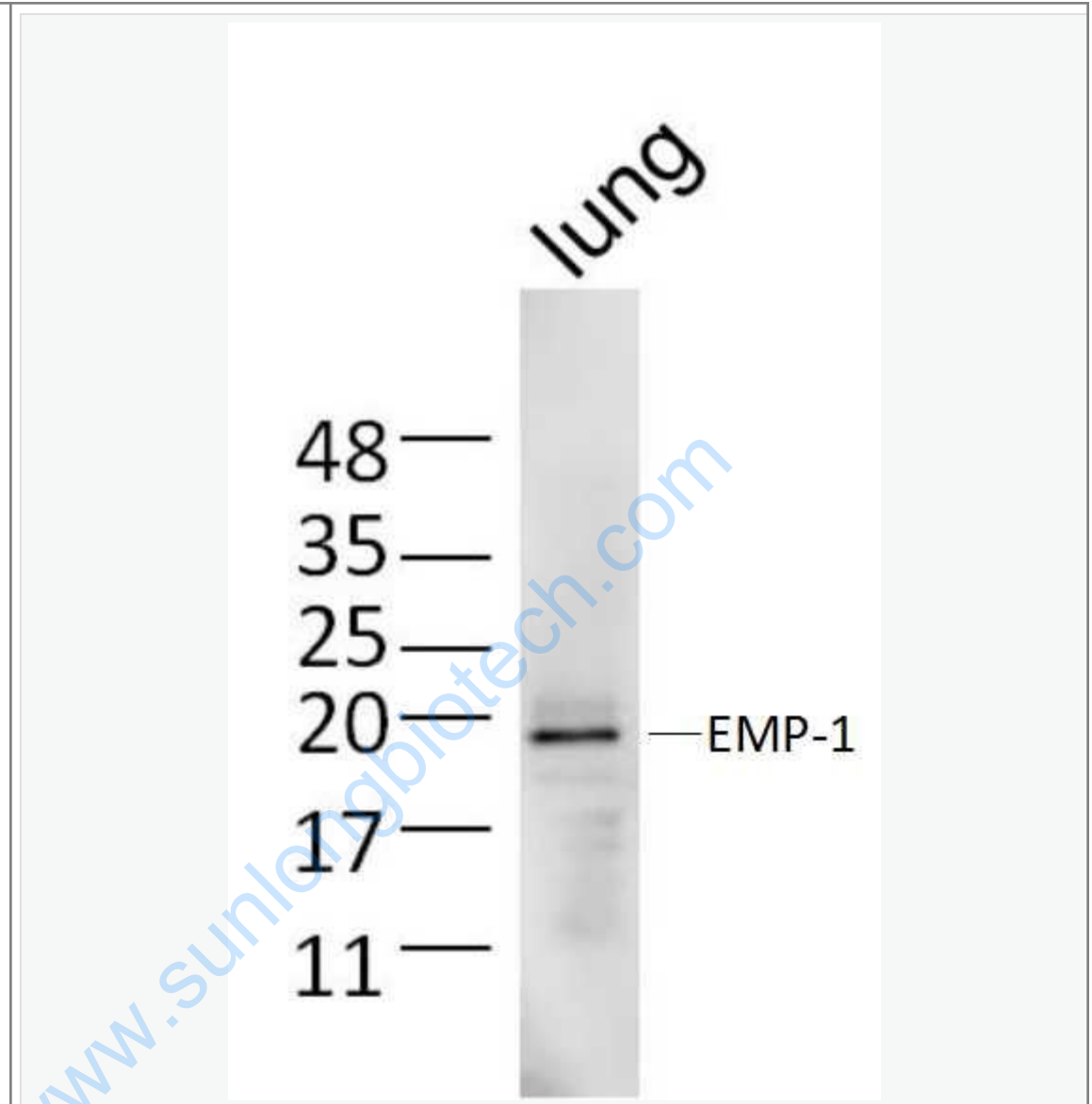
[Unigene: 719042](#)Human

Important Note:

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

emp-1蛋白主要参与细胞生长发育、细胞增殖、死亡、表皮发育等作用。

Picture:



Sample:

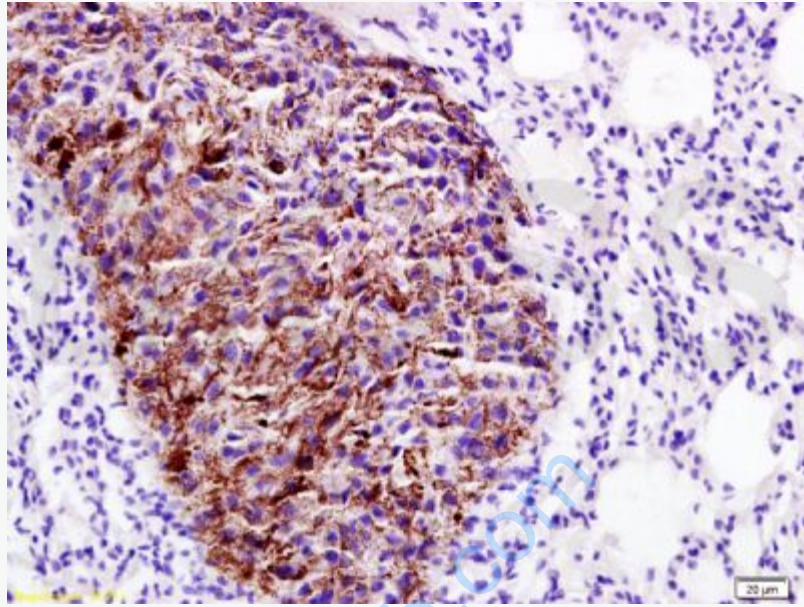
Lung (Mouse) Lysate at 40 ug

Primary: Anti-EMP-1 (SL0558R) at 1/300 dilution

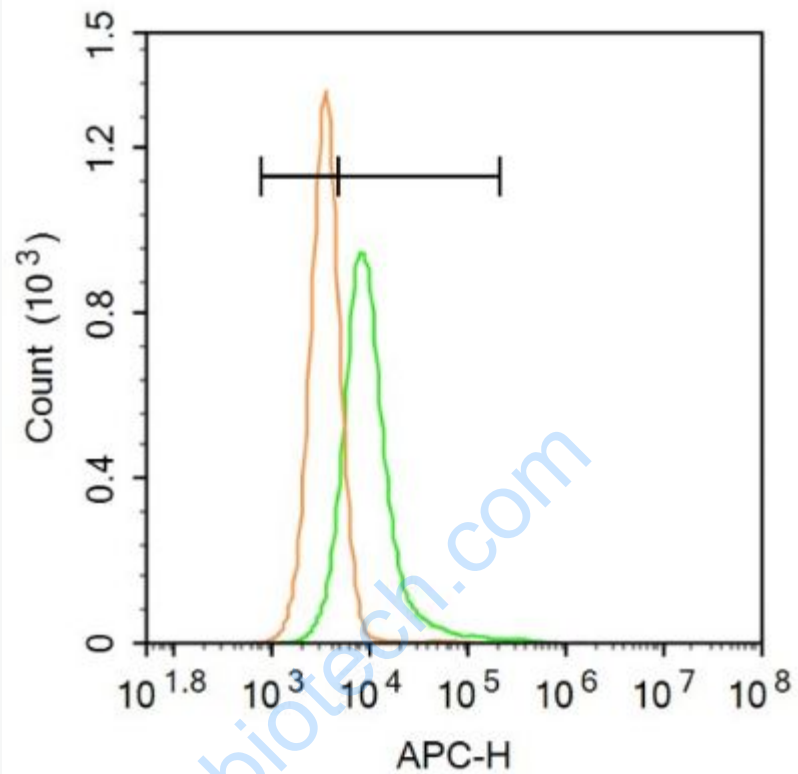
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 17 kD

Observed band size: 19 kD



Tissue/cell: rat lung carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;
Incubation: Anti-Emp1/MUC1 Polyclonal Antibody, Unconjugated(SL0558R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Blank control: A431.

Primary Antibody (green line): Rabbit Anti-EMP-1 antibody (SL0558R)

Dilution: $3\mu\text{g} / 10^6$ cells;

Isotype Control Antibody (orange line): Rabbit IgG .

Secondary Antibody: Goat anti-rabbit IgG-AF647

Dilution: $3\mu\text{g} / \text{test}$.

Protocol

The cells were incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

