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Rabbit Anti-EPS15R antibody

SL13100R

Product Name:	EPS15R
Chinese Name:	表皮生长因子受体底物15抗体
Alias:	epidermal growth factor receptor pathway substrate 15- ike 1; Epidermal growth factor receptor substrate 15 like 1; epidermal growth factor receptor substrate EPS15R; Eps15 related protein; eps15R;EP15R_HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Cow,Horse,Rabbit,Sheep,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=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:	94kDa
Cellular localization:	The nucleusThe cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human EPS15R:275-380/864
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:	Elucidation of the mechanism by which receptor tyrosine kinases (RTKs) modulate cellular physiology in response to stimuli is critical to the understanding of growth regulation, as miscues in RTK signaling can result in cellular transformation events that may ultimately lead to cancer. Eps15 (EGF-receptor pathway substrate 15) is an EGF receptor substrate that become become tyrosine phosphorylated subsequent to EGF

stimulation. Over expression of Eps15 in NIH/3T3 cells causes cellular transformation, implying involvement of Eps15 in the regulation of cell proliferation. Eps15R (Eps15-related), also known as Eps15L1 (epidermal growth factor receptor substrate 15-like 1), is an 864 amino acid protein that contains one EF-hand domain and three EH domains. Localized to a variety of places within the cell, including the nucleus, cytoplasm and membrane-coated pits, Eps15R is thought to function as a component of clathrin-coated pits. Like Eps15, Eps15R may play an important role in receptor-mediated endocytosis.

Function:
EPS15 and EPS15R are substrates of the epidermal growth factor (EGF) receptor kinase, which are characterized by their ability to bind to the clathrin adaptor protein complex adaptor protein 2, and the presence of a protein:protein interaction domain, the EH domain. Evidence suggests that EPS15 and EPS15R are involved in endocytosis. The major difference between these two related proteins is that EPS15R is also found in the nucleus, whereas EPS15 is excluded from this compartment at steady state.

Subunit:
Interacts with EPS15, AGFG1/HRB and AGFG2/HRBL. Associates with the clathrin-associated adapter protein complex 2 (AP-2) (By similarity). Interacts with FCHO1. Interacts with FCHO2. Interacts (via EH domains) with DAB2.

Subcellular Location:
Cell Membrane and Nuclear.

Post-translational modifications:
Phosphorylated on tyrosine residues by EGFR (By similarity).

Similarity:
Contains 1 EF-hand domain.
Contains 3 EH domains.

SWISS:
Q9UBC2

Gene ID:
58513

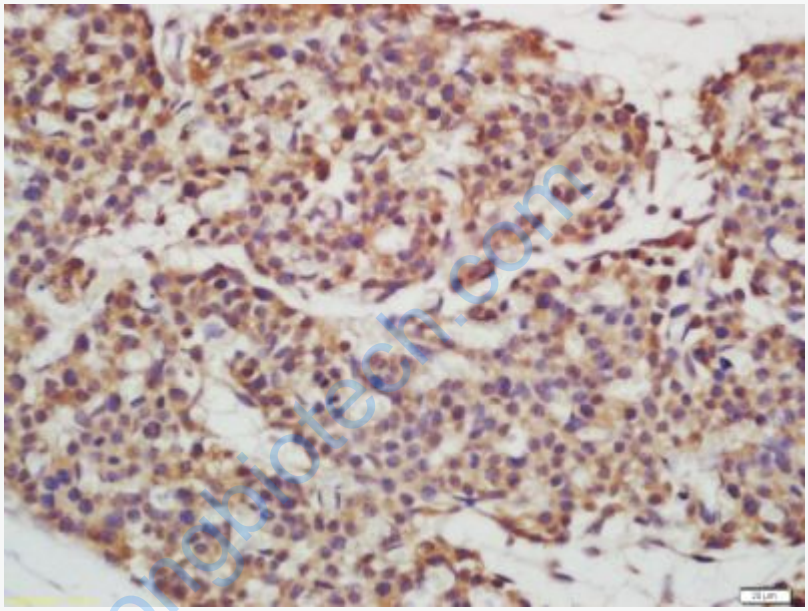
Database links:

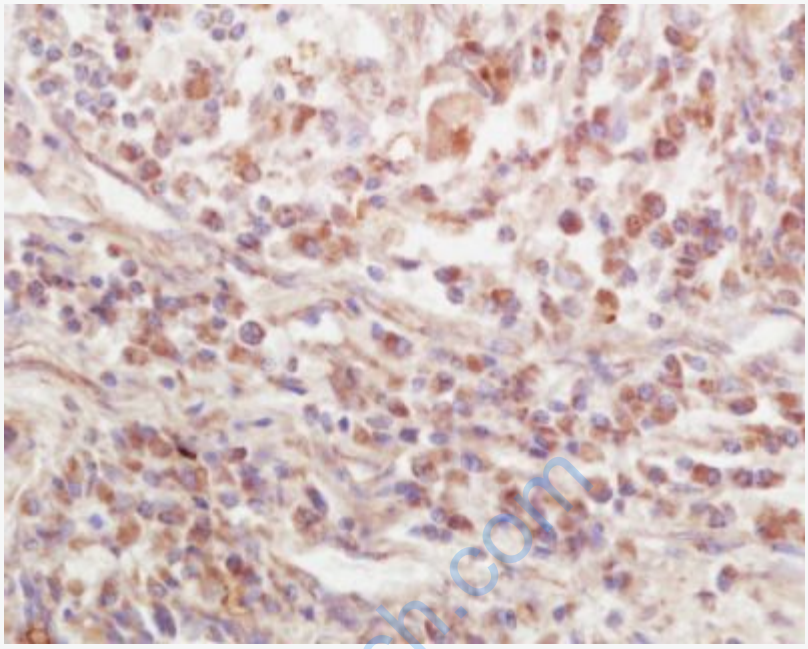
Entrez Gene: 58513Human

Omim: 600051Human

SwissProt: Q9UBC2Human

Unigene: 654639Human

	Unigene: 744842Human **Important Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Picture:	 Tissue/cell: mouse embryo tissue; 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℃ for 20 min; Incubation: Anti-EPS15R Polyclonal Antibody, Unconjugated(SL13100R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Tissue/cell: human 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℃ for 20 min;

Incubation: Anti-EPS15R Polyclonal Antibody, Unconjugated(SL13100R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining