



Rabbit Anti-TUG antibody

SL12355R

Product Name:	TUG
Chinese Name:	腺泡状软组织肉瘤结构域蛋白ASPC抗体
Alias:	Alveolar soft part sarcoma chromosomal region candidate gene 1 protein; Alveolar soft part sarcoma chromosome region candidate 1 (human); Alveolar soft part sarcoma locus; ASPC; ASPC1_HUMAN; ASPCR 1; ASPCR1; ASPL; ASPS; ASPSCR 1; Aspscr1; FLJ45380; RCC 17; RCC17; renal cell carcinoma gene on chromosome 17; renal cell carcinoma papillary 17; Renal papillary cell carcinoma protein 17; Tether containing a UBX domain for GLUT4; Tether containing UBX domain for GLUT4; TUG; UBX domain containing protein 9; UBX domain protein 9; UBX domain-containing protein 9; UBXD 9; UBXD9; UBXN 9; UBXN9.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=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:	60kDa
Cellular localization:	The cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human TUG/ASPC:351-420/553
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

Glut4 is a twelve pass transmembrane protein (12TM) whose carboxy-terminus may dictate its cellular localization. Aberrant Glut4 expression has been suggested to contribute to such maladies as obesity and diabetes. Glut4 null mice have shown that while functional Glut4 protein is not required for maintaining normal glucose levels, it is necessary for sustained growth, normal cellular glucose, fat metabolism and prolonged longevity. TUG (ASPL in humans) regulates the trafficking of glucose via Glut4. Full-length TUG forms a complex with Glut4 and in 3T3-L1 adipocytes and this complex is present in unstimulated cells and is disassembled by insulin. TUG acts by trapping endocytosed Glut4 and tethering it intracellularly. Insulin mobilizes this pool of retained Glut4 by releasing the tether.

Function:

Tethering protein that sequesters GLUT4-containing vesicles in the cytoplasm in the absence of insulin. Modulates the amount of GLUT4 that is available at the cell surface.

Subunit:

Interacts with GLUT4 (By similarity).

Subcellular Location:

Endomembrane system; Peripheral membrane protein (By similarity).

Tissue Specificity:

Ubiquitous. Highly expressed in testis, heart, skeletal muscle and pancreas.

DISEASE:

Note=A chromosomal aberration involving ASPSCR1 is found in patients with alveolar soft part sarcoma. Translocation t(X;17)(p11;q25) with TFE3 forms a ASPSCR1-TFE3 fusion protein.

Note=A chromosomal aberration involving ASPSCR1 has been found in two patients with of papillary renal cell carcinoma. Translocation t(X;17)(p11.2;q25).

Similarity:

Contains 1 UBX domain.

SWISS:

Q9BZE9

Gene ID:

79058

Database links:

[Entrez Gene: 79058](#) Human

[Entrez Gene: 68938](#) Mouse

Product Detail:

[Entrez Gene: 691026](#) Rat

[Omim: 606236](#) Human

[SwissProt: Q9BZE9](#) Human

[SwissProt: Q8VBT9](#) Mouse

[Unigene: 298351](#) Human

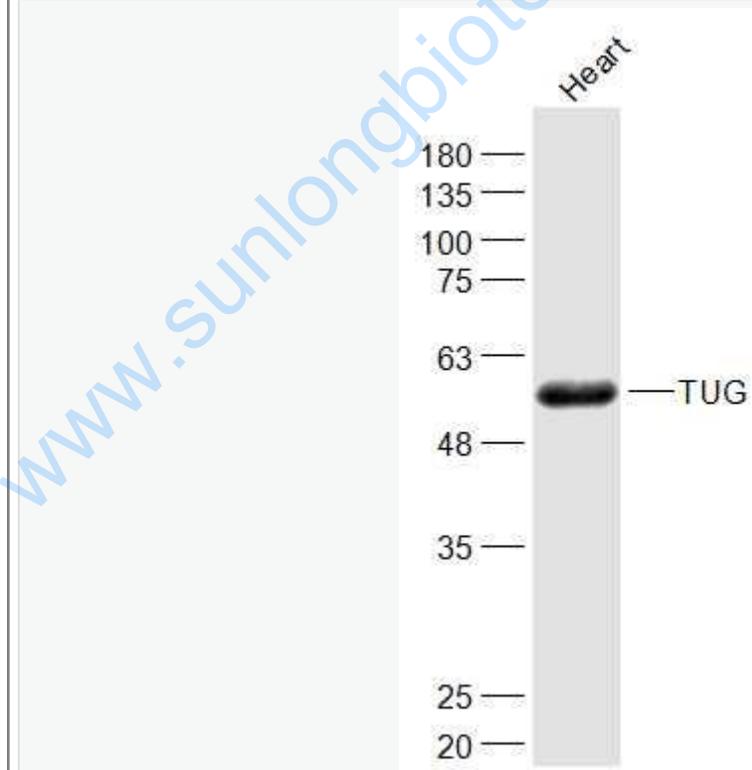
[Unigene: 294020](#) Mouse

[Unigene: 20298](#) Rat

Important Note:

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

Picture:



Sample:

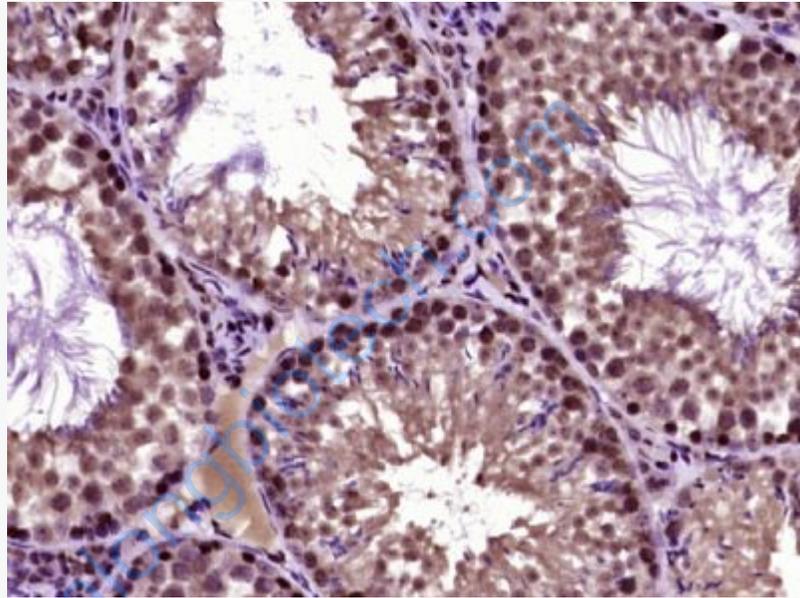
Heart (Mouse) Lysate at 40 ug

Primary: Anti-TUG? (SL12355R) at 1/1000 dilution

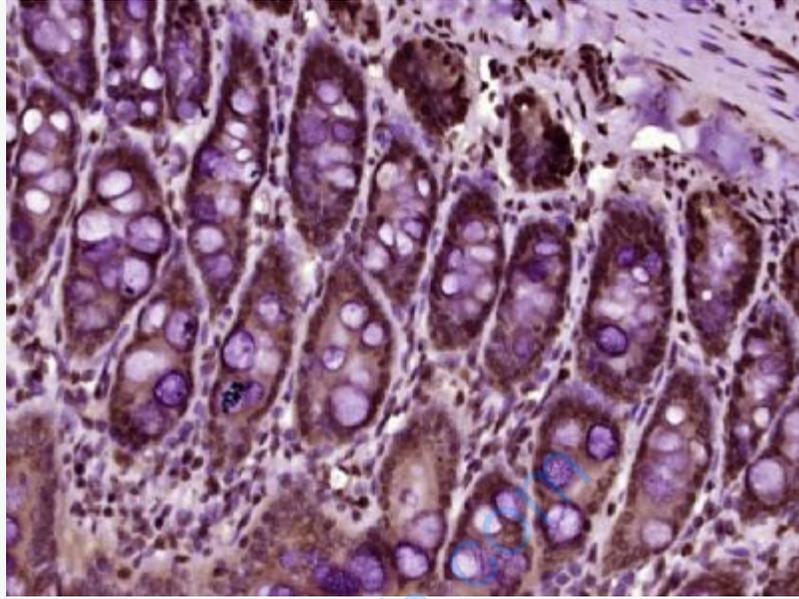
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 60 kD

Observed band size: 58 kD



Paraformaldehyde-fixed, paraffin embedded (Mouse testis); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (TUG) Polyclonal Antibody, Unconjugated (SL12355R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (rat colon tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (TUG) Polyclonal Antibody, Unconjugated (SL12355R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.