



Rabbit Anti-Protein BOC antibody

SL12322R

Product Name:	Protein BOC
Chinese Name:	蛋白BOC抗体
Alias:	Boc homolog (mouse); Brother of CDO; Protein BOC; brother of CDO precursor; Protein BOC; BOC HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Dog,Pig,Horse,Zebrafish,Sheep,
Applications:	ELISA=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:	121kDa
Cellular localization:	The cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human Protein BOC:451-550/1114<Extracellular>
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:	BOC is a receptor-like, single pass membrane protein belonging to the cell surface molecule subfamily of the Immunoglobulin/fibronectin type-III repeat family within the immunoglobulin superfamily. It contains three fibronectin type-III domains and four Immunoglobulin-like C2-type domains in its extracellular region. The intracellular region of BOC is not required for proper function. BOC localizes to the cell membrane

and is ubiquitously expressed with highest expression levels in skeletal muscle and small intestine. Its mRNA expression is down-regulated by Ras. BOC is involved in accelerating myoblast differentiation and is dependent on CDO for its activity. BOC and CDO are co-expressed in muscle precursors and are components of a receptor complex that mediates cell-cell interactions important in myogenesis. Overexpression of BOC results in enhanced differentiation of myoblast cells. In addition, BOC is a target and signaling component of the Shh pathway.

Function:

Brother of CDO (BOC) interacts with Hedgehog (Hh) via a specific FNIII domain and belongs to the Ihog (interference hedgehog) family of proteins. Zebrafish BOC is expressed predominantly in the developing neural plate and later in the neural tube and developing brain.

Subunit:

Part of a complex that contains BOC, CDON, NEO1, cadherins and CTNNB1. Interacts with NTN3 (By similarity). Interacts with CDH2 and CTNNB1. Interacts with CDH15 only during the early stages of myoblast differentiation.

Subcellular Location:

Cell membrane; Single pass type I membrane protein. Note: Enriched at sites of cell-cell contact.

Tissue Specificity:

Detected in skeletal muscle, heart, thymus, kidney and small intestine. Detected at lower levels in brain, placenta, lung and colon mucosa.

Post-translational modifications:

N-glycosylated.

Similarity:

Contains 3 fibronectin type-III domains.

Contains 4 Ig-like C2-type (immunoglobulin-like) domains.

SWISS:

Q9BWV1

Gene ID:

91653

Database links:

[Entrez Gene: 512018](#) Cow

[Entrez Gene: 487979](#) Dog

[Entrez Gene: 100712740](#) Guinea pig

[Entrez Gene: 100071428](#) Horse

[Entrez Gene: 91653](#) Human

[Entrez Gene: 117606](#) Mouse

[Entrez Gene: 100626085](#) Pig

[Entrez Gene: 100347510](#) Rabbit

[Entrez Gene: 360715](#) Rat

[Entrez Gene: 334628](#) Zebrafish

[Omim: 608708](#) Human

[SwissProt: Q9BWV1](#) Human

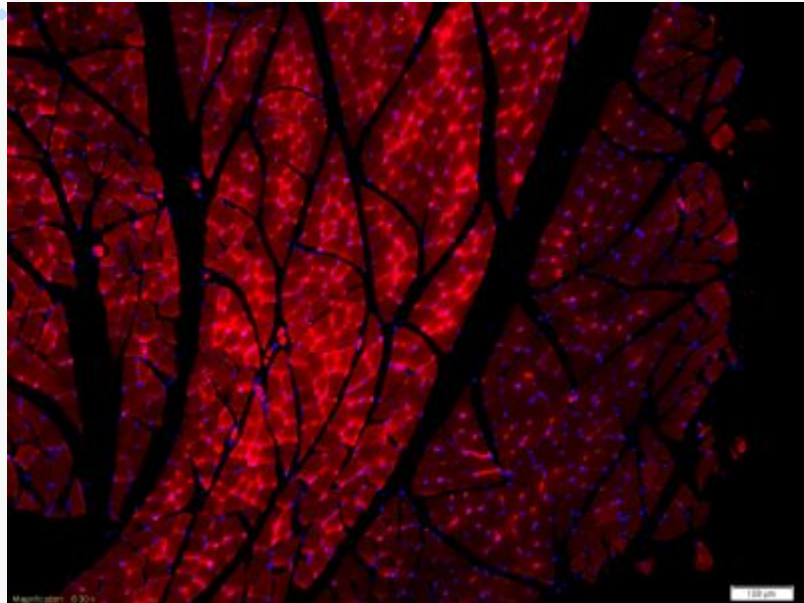
[SwissProt: Q6AZB0](#) Mouse

[Unigene: 591318](#) Human

Important Note:

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

Picture:



Tissue/cell: rat muscle tissue;4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min;
Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;
Incubation: Anti-Protein BOC Polyclonal Antibody, Unconjugated(SL12322R)
1:200, overnight at 4°C; The secondary antibody was Goat Anti-Rabbit IgG, Cy3
conjugated(SL12322R)used at 1:200 dilution for 40 minutes at 37°C.
DAPI(5ug/ml,blue,C-0033) was used to stain the cell nuclei

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