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Rabbit Anti-COBL antibody

SL23285R

Product Name:	COBL
Chinese Name:	耳聋-甲状腺肿综合征相关COBL蛋白抗体
Alias:	cobL; COBL_HUMAN; DKFZp686G13227; KIAA0633; MGC131893; Protein cordon-bleu.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Horse,
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:	136kDa
Cellular localization:	cytoplasmicThe cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human COBL:181-280/1261
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:	Cordon-bleu, also known as COBL, is a 1,261 amino acid protein that localizes to the node of the axial midline, a structure that organizes morphogenesis of the vertebrate embryo. Widely conserved and existing as five alternatively spliced isoforms, Cordon-bleu interacts with Vangl2 to mediate closure of the midbrain neural tube and is highly expressed in pancreas, ovary, brain, liver, lung and kidney. Cordon-bleu contains three WH2 domains and is encoded by a gene that maps to human chromosome 7, which

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houses over 1,000 genes and comprises nearly 5% of the human genome. Chromosome 7 has been linked to Osteogenesis imperfecta, Pendred syndrome, Lissencephaly, Citrullinemia and Shwachman-Diamond syndrome. The deletion of a portion of the q arm of chromosome 7 is associated with Williams-Beuren syndrome, a condition characterized by mild mental retardation, an unusual comfort and friendliness with strangers and an elfin appearance.

Function:
Plays an important role in the reorganization of the actin cytoskeleton. Regulates neuron morphogenesis and increases branching of axons and dendrites. Regulates dendrite branching in Purkinje cells (By similarity). Binds to and sequesters actin monomers (G actin). Nucleates actin polymerization by assembling three actin monomers in cross-filament orientation and thereby promotes growth of actin filaments at the barbed end. Can also mediate actin depolymerization at barbed ends and severing of actin filaments. Promotes formation of cell ruffles.

Subcellular Location:
Cell membrane; Peripheral membrane protein; Cytoplasmic side; Cytoplasm;

Similarity:
Contains 3 WH2 domains.

SWISS:
O75128

Gene ID:
23242

Database links:

Entrez Gene: 23242Human

Entrez Gene: 12808Mouse

Omim: 610317Human

SwissProt: O75128Human

SwissProt: Q5NBX1Mouse

Unigene: 99141Human

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

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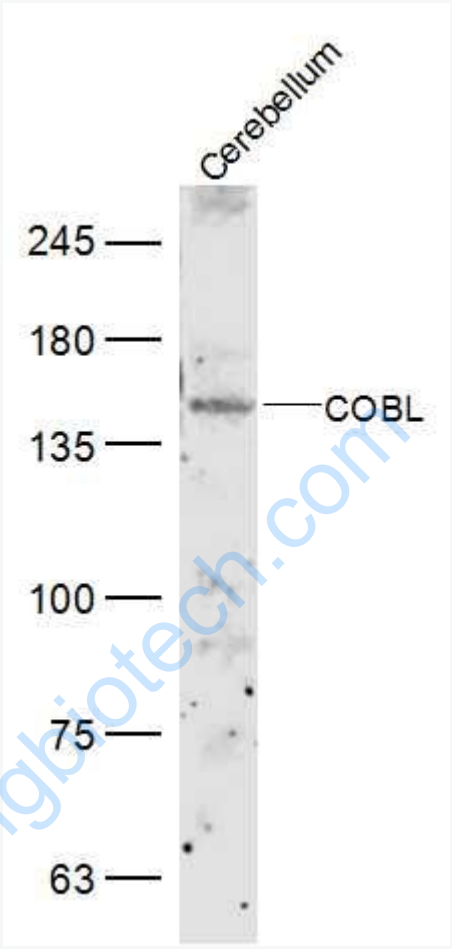
Picture:	 Sample: Cerebellum (Rat) Lysate at 40 ug Primary: Anti-COBL (SL23285R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 136 kD Observed band size: 143 kD

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