



## Rabbit Anti-ESCO2 antibody

SL14632R

<b>Product Name:</b>	ESCO2
<b>Chinese Name:</b>	罗伯茨综合征相关蛋白抗体
<b>Alias:</b>	CTF7, S. CEREVISIAE, HOMOLOG OF, 2; ECO1 homolog 2; ECO1, S. CEREVISIAE, HOMOLOG OF, 2; EFO2; ESO1, S. POMBE, HOMOLOG OF, 2; ESTABLISHMENT FACTOR ORTHOLOG 2; EFO2; Establishment of cohesion 1 homolog 2; Establishment of cohesion 1 homolog 2 (S. cerevisiae); N acetyltransferase ESCO2; RBS; Roberts syndrome.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,
<b>Applications:</b>	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.
<b>Molecular weight:</b>	68kDa
<b>Cellular localization:</b>	The nucleus
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from human ESCO2:101-200/601
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	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.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</b>	This gene encodes a protein that may have acetyltransferase activity and may be required for the establishment of sister chromatid cohesion during the S phase of mitosis. Mutations in this gene have been associated with Roberts syndrome. [provided by

RefSeq, Jul 2008]

**Function:**

ESCO2 is an acetyltransferase required for the establishment of sister chromatid cohesion, and couples the processes of cohesion and DNA replication to ensure that only sister chromatids become paired together. In contrast to the structural cohesins, the deposition and establishment factors are required only during S phase. Defects in ESCO2 are the cause of Roberts syndrome (RBS), a rare autosomal recessive disorder characterized by pre- and postnatal growth retardation, microcephaly, bilateral cleft lip and palate, and mesomelic symmetric limb reduction. Severely affected infants may be stillborn or die shortly after birth. RBS chromosomes have a lack of cohesion involving the heterochromatic C-banding regions around centromeres and the distal portion of the long arm of the Y chromosome (known as premature centromere separation, heterochromatin repulsion or puffing, or RS effect). Defects in ESCO2 are also the cause of SC phocomelia syndrome, also known as SC pseudothalidomide syndrome. SC phocomelia syndrome has a milder phenotype than RBS, with a lesser degree of symmetric limb reduction and additionally includes flexion contractures of various joints, midfacial hemangioma, hypoplastic cartilage of ears and nose, scant silvery-blond hair, and cloudy corneae. Although microcephaly is present, mental retardation may be mild and survival into adulthood is common.

**Subcellular Location:**

Nuclear

**SWISS:**

Q56NI9

**Gene ID:**

157570

**Database links:**

[Entrez Gene: 157570](#) Human

[Omim: 609353](#) Human

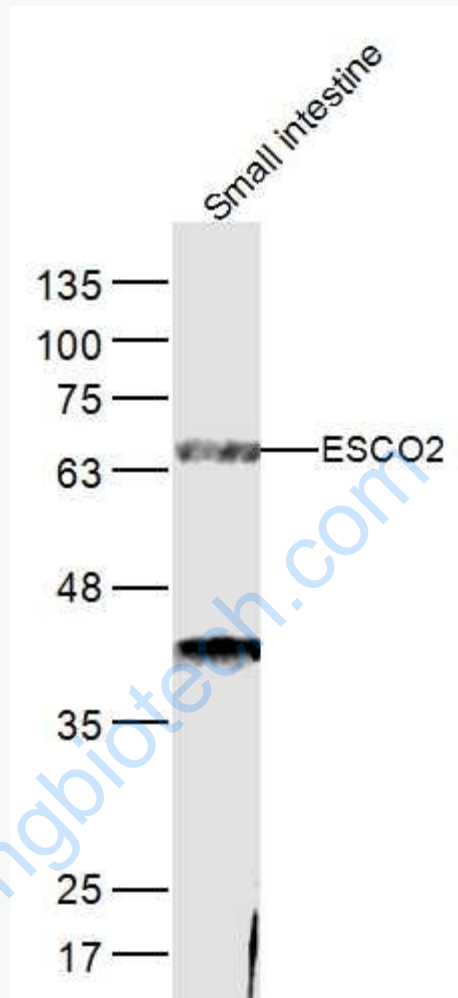
[SwissProt: Q56NI9](#) Human

[Unigene: 99480](#) Human

**Important Note:**

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

Picture:



Sample:

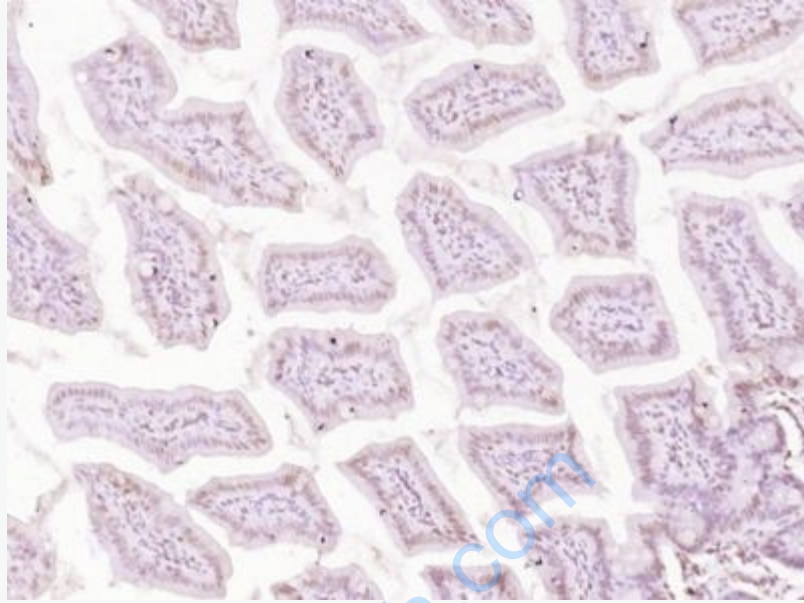
Small intestine (Mouse) Lysate at 40 ug

Primary: Anti-ESCO2 (SL14632R) at 1/300 dilution

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

Predicted band size: 68 kD

Observed band size: 68 kD



Paraformaldehyde-fixed, paraffin embedded (Mouse intestine); 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 (ESCO2) Polyclonal Antibody, Unconjugated (SL14632R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.