

For Research Use Only

# ESCO2 Polyclonal antibody

Catalog Number: 23525-1-AP

5 Publications



## Basic Information

### Catalog Number:

23525-1-AP

### Size:

150ul, Concentration: 550 ug/ml by Nanodrop and 307 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG18893

### GenBank Accession Number:

BC146562

### GeneID (NCBI):

157570

### UNIPROT ID:

Q56NI9

### Full Name:

establishment of cohesion 1 homolog 2 (S. cerevisiae)

### Calculated MW:

601 aa, 68 kDa

### Observed MW:

65-70 kDa

### Purification Method:

Antigen Affinity purified

### Recommended Dilutions:

WB 1:500-1:3000

IHC 1:150-1:600

## Applications

### Tested Applications:

WB, IHC, ELISA

### Cited Applications:

WB, IF

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse, bovine

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

### Positive Controls:

WB : HeLa cells, HepG2 cells, mouse testis, rat testis

IHC : human skin cancer tissue,

## Background Information

ESCO2 is also known as Establishment of Sister Chromatid Cohesion N-Acetyltransferase 2, EFO2. This gene encodes a member of the family of acetyltransferases involved in the establishment of sister chromatid cohesion during S phase and postreplicative sister chromatid cohesion induced by double-strand breaks (PubMed: 15821733). Mutations in the ESCO2 gene are associated with a rare genetic disorder called Roberts syndrome or SC phocomelia syndrome (PubMed: 16380922). The loss of function or impaired activity of the ESCO2 protein due to mutations disrupts the proper cohesion of sister chromatids, leading to chromosomal abnormalities and the characteristic features of Roberts syndrome. ESCO2 can be detected as about 65-70 kDa.

## Notable Publications

Author	Pubmed ID	Journal	Application
Gang Zhang	35258173	Kaohsiung J Med Sci	WB
Xueying Gu	39614650	Cell Prolif	WB
Wan Li	39413129	Proc Natl Acad Sci U S A	WB

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

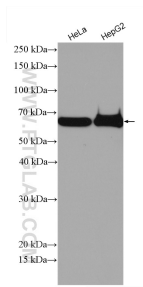
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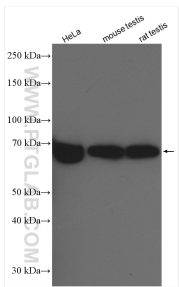
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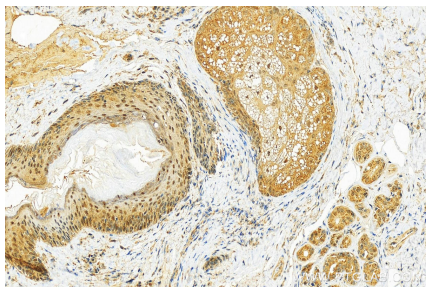
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 23525-1-AP (ESCO2 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Various lysates were subjected to SDS PAGE followed by western blot with 23525-1-AP (ESCO2 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded skin cancer slide using 23525-1-AP (ESCO2 antibody) at dilution of 1:300 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).