



## Product datasheet

# Anti-ESCO2 antibody ab219996

★★★★★ 1 Abreviews 1 Image

### Overview

<b>Product name</b>	Anti-ESCO2 antibody
<b>Description</b>	Rabbit polyclonal to ESCO2
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> ICC/IF
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	<p>Recombinant fragment corresponding to Human ESCO2 aa 313-395. Sequence:</p> <p>LGENKTISPKSTVYPIFSASSVNSKRSLGEEQFSVGSVNF MKQTNIQKNT NTRDTSKKTQDQLIIDAGQKHFGATVCKSCGMI</p> <p>Database link: <a href="#">Q56NI9</a></p> <p style="text-align: right;">  <a href="#">Run BLAST with</a>                 <a href="#">Run BLAST with</a> </p>
<b>Positive control</b>	U-2 OS cells.
<b>General notes</b>	<p>Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.</p> <p>Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.</p> <p>We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications &amp; species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee.</p> <p>In preparation for this, we have started to update the applications &amp; species that this product is Abpromise guaranteed for.</p> <p>We are also updating the applications &amp; species that this product has been “predicted to work with,” however this information is not covered by our Abpromise guarantee.</p> <p>Applications &amp; species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.</p> <p>Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, as well as customer reviews and Q&amp;As.</p>

## Properties

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<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	pH: 7.20 Preservative: 0.02% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine)
<b>Purity</b>	Immunogen affinity purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

## Applications

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Our [Abpromise guarantee](#) covers the use of **ab219996** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF	★★★★★	Use a concentration of 0.25 - 2 µg/ml.

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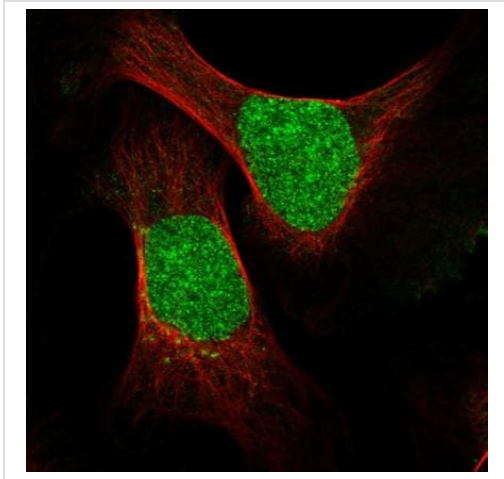
## Target

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<b>Relevance</b>	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.
<b>Cellular localization</b>	Nuclear

## Images

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Immunofluorescent analysis of PFA-fixed, triton X-100 permeabilized U-2 OS cells labeling ESCO2 with ab219996 at 4  $\mu\text{g/ml}$  (green).

Immunocytochemistry/ Immunofluorescence - Anti-ESCO2 antibody (ab219996)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

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