

Anti-ESCO2 Antibody

Catalog Number: A04812-1

About ESCO2

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.

Overview

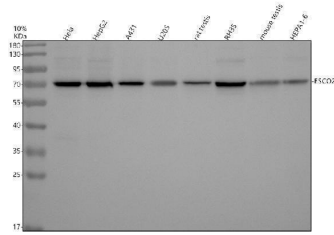
Product Name	Anti-ESCO2 Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-ESCO2 Antibody catalog # A04812-1. Tested in WB, IHC, ELISA applications. This antibody reacts with Human, Mouse, Rat.
Application	ELISA, IHC, WB
Clonality	Polyclonal
Formulation	500 ug/ml antibody with PBS, 0.02% NaN ₃ , 1 mg stabilizing protein and 50% glycerol *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
Storage Instructions	12 months from date of receipt at -20°C as supplied. 6 months at 2 to 8°C after reconstitution. Avoid repeated freezing and thawing.
Host	Rabbit
Uniprot ID	Q56NI9

Technical Details

Immunogen	E.coli-derived human ESCO2 recombinant protein (Position: A3-V350).
Form	Liquid
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 1:500-2000

	Immunohistochemistry, 1:50-400 ELISA, 1:100-1000
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Anti-ESCO2 Antibody (A04812-1) Images



Western blot analysis of ESCO2 using anti-ESCO2 antibody (A04812-1). Electrophoresis was performed on a 10% SDS-PAGE gel at 80V (Stacking gel) / 120V (Resolving gel) for 2 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human HeLa whole cell lysates, Lane 2: human HepG2 whole cell lysates, Lane 3: human A431 whole cell lysates, Lane 4: human U20S whole cell lysates, Lane 5: rat testis tissue lysates, Lane 6: rat RH35 whole cell lysates, Lane 7: mouse testis tissue lysates, Lane 8: mouse HEPA1-6 whole cell lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-ESCO2 antigen affinity purified polyclonal antibody (A04812-1) at 1:1000 overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an ECL Plus Western Blotting Substrate (Catalog # AR1196-200) with Tanon 5200 system. A specific band was detected for ESCO2 at approximately 70 kDa. The expected band size for ESCO2 is at 68 kDa.

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