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ESCO2 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP10717c

Product Information

Application	WB, FC, E
Primary Accession	Q56NI9
Other Accession	NP_001017420.1
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB28548
Calculated MW	68307
Antigen Region	132-161

Additional Information

Gene ID	157570
Other Names	N-acetyltransferase ESCO2, 231-, Establishment of cohesion 1 homolog 2, ECO1 homolog 2, ESCO2
Target/Specificity	This ESCO2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 132-161 amino acids from the Central region of human ESCO2.
Dilution	WB~~1:1000 FC~~1:10~50 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	ESCO2 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	ESCO2 (HGNC:27230)
Function	Acetyltransferase required for the establishment of sister chromatid cohesion (PubMed:15821733, PubMed:15958495). 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 the S phase. Acetylates the cohesin component SMC3 (PubMed:21111234).
Cellular Location	Nucleus. Chromosome. Note=Nuclear in interphase cells, excluded from chromosomes during metaphase but reassociates with chromosomes in telophase.
Tissue Location	Widely expressed in fetal tissues. In adult, it is expressed in thymus, placenta and small intestine

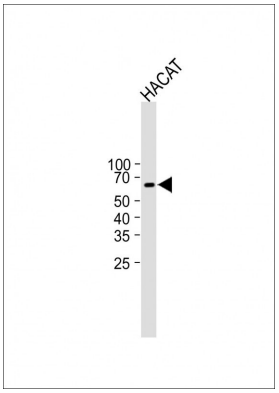
Background

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.

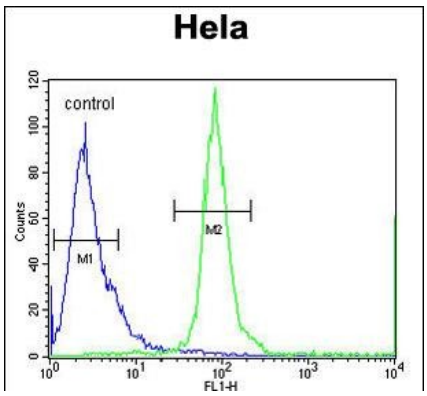
References

Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :
Nishihara, M., et al. Biochem. Biophys. Res. Commun. 393(1):111-117(2010)
Vega, H., et al. J. Med. Genet. 47(1):30-37(2010)
Terret, M.E., et al. Nature 462(7270):231-234(2009)
van der Lelij, P., et al. PLoS ONE 4 (9), E6936 (2009) :

Images



All lanes : Anti-ESCO2 Antibody (Center) at 1:2000 dilution Lane 1: HACAT whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ASP1615) at 1/15000 dilution. Observed band size : 68kDa Blocking/Dilution buffer: 5% NFDM/TBST.



ESCO2 Antibody (Center) (Cat. #AP10717c) flow cytometric analysis of Hela cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.