

ESX1 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP17259a

Product Information

Application	WB, E
Primary Accession	Q8N693
Other Accession	NP_703149.1
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB37249
Calculated MW	44297
Antigen Region	28-55

Additional Information

Gene ID	80712
Other Names	Homeobox protein ESX1, Extraembryonic, spermatogenesis, homeobox 1, Homeobox protein ESX1-N, Homeobox protein ESX1-C, ESX1, ESX1L, ESX1R
Target/Specificity	This ESX1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 28-55 amino acids from the N-terminal region of human ESX1.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
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	ESX1 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	ESX1
Synonyms	ESX1L, ESX1R
Function	May coordinately regulate cell cycle progression and transcription during

spermatogenesis. Inhibits degradation of polyubiquitinated cyclin A and cyclin B1 and thereby arrests the cell cycle at early M phase. ESXR1-N acts as a transcriptional repressor. Binds to the sequence 5'-TAATGTTATTA-3' which is present within the first intron of the KRAS gene and inhibits its expression. ESXR1-C has the ability to inhibit cyclin turnover.

Cellular Location

Cytoplasm. Nucleus {ECO:0000255 | PROSITE-ProRule:PRU00108, ECO:0000269 | PubMed:15235584} Note=ESXR1-N localizes specifically to the nucleus while ESXR1-C localizes specifically to the cytoplasm

Tissue Location

Expressed in placenta and testis. Expressed in testicular germ cell tumors.

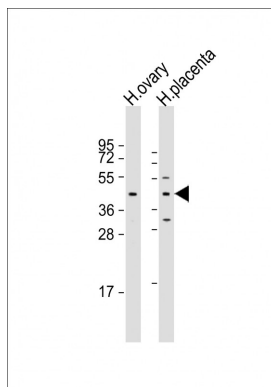
Background

This gene encodes a dual-function 65 kDa protein that undergoes proteolytic cleavage to produce a 45 kDa N-terminal fragment with a paired-like homeodomain and a 20 kDa C-terminal fragment with a proline-rich domain. The C-terminal fragment localizes to the cytoplasm while the N-terminal fragment localizes exclusively to the nucleus. In contrast to human, the mouse homolog has a novel PN/PF motif in the C-terminus and is paternally imprinted in placental tissue. This gene likely plays a role in placental development and spermatogenesis.

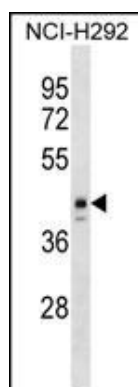
References

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Wang, X., et al. Hum. Mol. Genet. 16(17):2053-2060(2007)
Loschiavo, M., et al. Mamm. Genome 18(1):75-85(2007)
Murthi, P., et al. Mol. Hum. Reprod. 12(5):335-340(2006)
Yanagihara, M., et al. Oncogene 24(38):5878-5887(2005)

Images



All lanes : Anti-ESX1 Antibody (N-term) at 1:1000-1:2000 dilution Lane 1: human ovary lysate Lane 2: human placenta lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 44 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



ESX1 Antibody (N-term) (Cat. #AP17259a) western blot analysis in NCI-H292 cell line lysates (35ug/lane). This demonstrates the ESX1 antibody detected the ESX1 protein (arrow).

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