



Rabbit Anti-ESX1 antibody

SL14639R

Product Name:	ESX1
Chinese Name:	胚胎外精子同源蛋白1抗体
Alias:	Epx; ESX1; ESX1_HUMAN; ESX1L; ESXR1; Etx; Extraembryonic; Extraembryonic spermatogenesis homeobox 1; homeobox 1; Homeobox protein ESX1-C; spermatogenesis; Spx1.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	44kDa
Cellular localization:	The nucleuscytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human ESX1:21-120/406
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	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. [provided by RefSeq, Jan 2010]

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.

Subcellular Location:

Cytoplasm. Nucleus. ESXR1-N localizes specifically to the nucleus while ESXR1-C localizes specifically to the cytoplasm.

Tissue Specificity:

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

Post-translational modifications:

Undergoes proteolytic cleavage; produces a 45 kDa N-terminal homeodomain-containing fragment (ESXR1-N) and a 20 kDa C-terminal fragment (ESXR1-C).

Similarity:

Contains 1 homeobox DNA-binding domain.

SWISS:

Q8N693

Gene ID:

80712

Database links:

[Entrez Gene: 80712](#) Human

[Omim: 300154](#) Human

[SwissProt: Q8N693](#) Human

[Unigene: 223782](#) Human

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

