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Datasheet for 600-401-BC1

ESX1 Antibody

Overview

Description:	Anti-ESX1 (RABBIT) Antibody - 600-401-BC1
Item No.:	600-401-BC1
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human
Host Species:	Rabbit

Product Details

Background:	Homeobox proteins are transcription factors that contain a helix-turn-helix DNA binding domain termed the homeodomain. ESX1 is an X-linked homeobox gene primarily expressed in the placenta and testis and contains two functional domains: the homeodomain and the proline-rich domain. During embryogenesis, ESX1 is expressed in the extraembryonic tissues, including the endoderm of the visceral yolk sac, the ectoderm of the chorion and the labyrinthine trophoblast of the chorioallantoic placenta. ESX1 can act like a transcriptional repressor to the human oncogene K-ras and treatment of human cancer cells with an ESX1 protein fragment containing the homeodomain reduces the tumorgenicity of cells containing oncogenic K-ras mutations, suggesting ESX1 may be useful as a therapeutic treatment for these cancers.
Synonyms:	ESX1 Antibody, ESX1L, ESXR1, ESX1L, ESX1R, Homeobox protein ESX1, Extraembryonic, spermatogenesis, homeobox 1
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	ESX1
Reactivity:	Human
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-ESX1 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 19 amino acid synthetic peptide near the internal region of human ESX1.
Purity/Specificity:	Anti-ESX1 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with ESX1 from other sources has not been determined.
Relevant Links:	• UniProtKB - Q8N693 • GeneID - 80712 • NCBI - NP_703149.1

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-ESX1 Antibody has been tested for use in ELISA, Western Blotting, Immunohistochemistry and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 44 kDa in Western Blots of specific cell lysates and tissues.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000 - 1:20,000
IF:	20 µg/mL
IHC:	2.5 µg/mL
WB:	1-2 µg/mL

Formulation

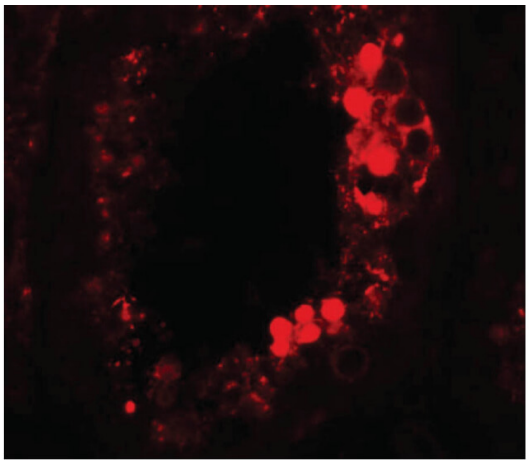
Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

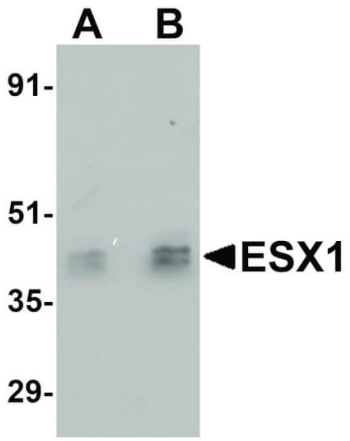
Shipping Condition:	Dry Ice

Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

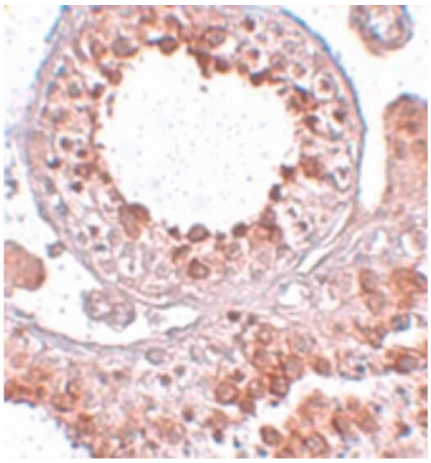
Images



Immunofluorescence Microscopy
Immunofluorescence Microscopy of ESX1 antibody. Tissue: Human testis tissue. Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: ESX1 antibody at 20 µg/mL for 1 h at RT. Secondary antibody: Fluorescein rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: ESX1 is nuclear and cytoplasmic. Staining: ESX1 as red fluorescent signal.



Western Blot
Western Blot of ESX1 antibody. Lane 1: Human testis tissue lysate with ESX1 antibody at 1 µg/mL. Lane 2: Human testis tissue lysate with ESX1 antibody at 2 µg/mL. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 44 kDa, 44 kDa for ESX1. Other band(s): ESX1 splice variants and isoforms.



Immunohistochemistry
Immunohistochemistry of ESX1 antibody. Tissue: Human testis tissue. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: ESX1 antibody at 2.5 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: ESX1 is nuclear and cytoplasmic. Staining: ESX1 as precipitated brown signal with blue nuclear counterstain.

Disclaimer

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