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## anti-ESX Homeobox 1 antibody (Center)





#### Overview

Overview	
Quantity:	0.1 mg
Target:	ESX Homeobox 1 (ESX1)
Binding Specificity:	Center
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ESX Homeobox 1 antibody is un-conjugated
Application:	Western Blotting (WB), Enzyme Immunoassay (EIA)
Product Details	
Immunogen:	ESX1 antibody was raised against a 19 amino acid peptide near the center of human ESX1.
Isotype:	IgG
Purification:	Affinity chromatography purified via peptide column
Target Details	
Target:	ESX Homeobox 1 (ESX1)
Alternative Name:	ESX1 (ESX1 Products)
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 prolinerich domain. During embryogenesis, ESX1 is expressed in the extraembryonic tissues, including

### **Target Details**

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: ESX1L, ESX1R, Homeobox protein ESX1	

Gene ID:

80712

UniProt:

Q8N693

## **Application Details**

Application Notes:

ELISA. Western Blot: 1 - 2 µg/mL. Immunohistochemistry.

Other applications not tested.

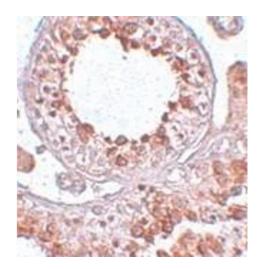
Optimal dilutions are dependent on conditions and should be determined by the user.

Restrictions:

For Research Use only

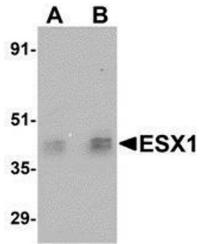
## Handling

Concentration:	1.0 mg/mL
Buffer:	PBS containing 0.02 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	-20 °C
Storage Comment:	Store the antibody (in aliquots) at -20 °C.



#### **Immunohistochemistry (Paraffin-embedded Sections)**

**Image 1.** Immunohistochemistry of ESX1 in human testis tissue with ESX1 antibody at  $2.5\,\mu\text{g/ml}$ .



#### **Western Blotting**

**Image 2.** Western blot analysis of ESX1 in human testis tissue lysate with AP30320PU-N ESX1 antibody at (A) 1 and (B)  $2 \mu g/ml$ .