For Research Use Only

ZFX Polyclonal antibody

Catalog Number:27655-1-AP

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Basic Information

Catalog Number:
27655-1-AP

Size:
550 μg/ml

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG26576

GenBank Accession Number:
NM_001178084

GeneID (NCBI):
7543

UNIPROT ID:
P17010

Full Name:
zinc finger protein, X-linked

Calculated MW:
91 kDa

Observed MW:
~130 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:500-1:3000

Applications

Tested Applications:
WB, ELISA

Species Specificity:
Human, rat

Positive Controls:

WB : HL-60 cells, HeLa cells, K-562 cells, PC-12 cells

Background Information

ZFX (Zinc finger protein, X-linked), a key factor that controls the self-renewal of ESCs, belongs to the ZFY family whose members (ZFX, ZFY, ZFA) have similar molecular structures. Mammalian ZFX contains an acidic transcriptional activation domain, a nuclear localization signal (NLS) sequence, and a DNA binding domain consisting of 13 C2H2 zinc fingers. Knocking out ZFX has been shown to impair the self-renewal capacity of mouse ESC and tissue-specific adult stem cell such as hematopoietic stem cells (HSCs) without affecting their differentiation, and ZFX overexpression has been shown to promote ESC self-renewal by impeding differentiation. It's reported that t the 130 kDa band was N-glycosylated, and such a posttranslational modification (PTM) may control the nuclear import of ZFX, 91 kDa may be the non-N-glycosylated subtype which was lowly expressed. (PMID: 23322077, PMID:24228108)

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
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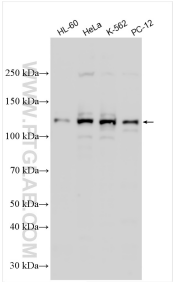
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 27655-1-AP (ZFX antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.