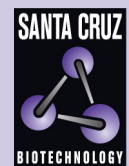


# XPLAC (N-15): sc-50205



The Power to Question

## BACKGROUND

Kell and XK are two covalently linked plasma membrane proteins that constitute the Kell blood group system, a group of antigens on the surface of red blood cells that are important determinants of blood type and targets for autoimmune or alloimmune diseases. XK is a 444 amino acid protein that spans the membrane 10 times and carries the ubiquitous antigen, Kx, which determines blood type. XK also plays a role in the sodium-dependent membrane transport of oligopeptides and neutral amino acids. XPLAC is a 462 amino acid member of the XK family that is expressed mostly in placenta and adrenal gland. The XPLAC gene is located on the X chromosome at position q22.1.

## REFERENCES

1. Lee, S., Russo, D.C., Pu, J., Ho, M. and Redman, C.M. 2000. The mouse Kell blood group gene (Kel): cDNA sequence, genomic organization, expression, and enzymatic function. *Immunogenetics* 52: 53-62.
2. Russo, D., Wu, X., Redman, C.M. and Lee, S. 2000. Expression of Kell blood group protein in nonerythroid tissues. *Blood* 96: 340-346.
3. Feder, M. and Bujnicki, J.M. 2005. Identification of a new family of putative PD-(D/E)XK nucleases with unusual phylogenomic distribution and a new type of the active site. *BMC Genomics* 6: 21.
4. He, Y., Tabibi, S.E. and Yalkowsky, S.H. 2005. Solubilization of two structurally related anticancer drugs: XK-469 and PPA. *J. Pharm. Sci.* 95: 97-107.
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6. Calenda, G., Peng, J., Redman, C.M., Sha, Q., Wu, X. and Lee, S. 2006. Identification of two new members, XPLAC and XTES, of the XK family. *Gene* 370: 6-16.

## CHROMOSOMAL LOCATION

Genetic locus: XKRX (human) mapping to Xq22.1; Xkrx (mouse) mapping to X E3.

## SOURCE

XPLAC (N-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of XPLAC of human origin.

## PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-50205 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## STORAGE

Store at 4° C, **\*\*DO NOT FREEZE\*\***. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

## APPLICATIONS

XPLAC (N-15) is recommended for detection of XPLAC of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for XPLAC siRNA (h): sc-61809, XPLAC siRNA (m): sc-61810, XPLAC shRNA Plasmid (h): sc-61809-SH, XPLAC shRNA Plasmid (m): sc-61810-SH, XPLAC shRNA (h) Lentiviral Particles: sc-61809-V and XPLAC shRNA (m) Lentiviral Particles: sc-61810-V.

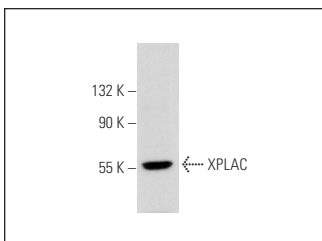
Molecular Weight of XPLAC: 53.6 kDa.

Positive Controls: mouse placenta extract: sc-364247.

## RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

## DATA



XPLAC (N-15): sc-50205. Western blot analysis of XPLAC expression in mouse placenta tissue extract.

## RESEARCH USE

For research use only, not for use in diagnostic procedures.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.