# XPLAC (S-17): sc-50206



The Boures to Overtion

#### **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**

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- 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  $\rm E3$ .

# **SOURCE**

XPLAC (S-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of XPLAC of human origin.

# **PRODUCT**

Each vial contains 200  $\mu g$  lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-50206 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

#### **STORAGE**

Store at  $4^{\circ}$  C, \*\*D0 NOT FREEZE\*\*. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

#### **APPLICATIONS**

XPLAC (S-17) 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), 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).

XPLAC (S-17) is also recommended for detection of XPLAC in additional species, including equine, canine, bovine and porcine.

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.

## **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) 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.

## **RESEARCH USE**

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

## **PROTOCOLS**

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

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