

## XKR9 (E-13): sc-98212

### 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 ten times and carries the ubiquitous antigen Kx, which determines blood type. The XK (X-linked Kx blood group)-related gene family are homologs of XK. XKR9 (XK, Kell blood group complex subunit-related family, member 9), also known as XRG9, is a 373 amino acid multi-pass membrane protein belonging to the XK family. The gene encoding XRG9 maps to human chromosome 8, which consists of nearly 146 million base pairs, houses more than 800 genes and is associated with a variety of diseases and malignancies.

### REFERENCES

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### CHROMOSOMAL LOCATION

Genetic locus: XKR9 (human) mapping to 8q13.3; Xkr9 (mouse) mapping to 1 A3.

### SOURCE

XKR9 (E-13) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within an internal region of XKR9 of human origin.

### PRODUCT

Each vial contains 100 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-98212 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

### APPLICATIONS

XKR9 (E-13) is recommended for detection of XKR9 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); non cross-reactive with other XKR family members.

XKR9 (E-13) is also recommended for detection of XKR9 in additional species, including equine, canine and bovine.

Suitable for use as control antibody for XKR9 siRNA (h): sc-77565, XKR9 siRNA (m): sc-155378, XKR9 shRNA Plasmid (h): sc-77565-SH, XKR9 shRNA Plasmid (m): sc-155378-SH, XKR9 shRNA (h) Lentiviral Particles: sc-77565-V and XKR9 shRNA (m) Lentiviral Particles: sc-155378-V.

Molecular Weight of XKR9: 44 kDa.

### RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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 goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

### STORAGE

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

### 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.