



## XKR5 (G-20): sc-98210

### 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. XKR5 (XK-related protein 5) is a 686 amino acid multi-pass membrane protein that likely is a component of the XK/Kell complex of the Kell blood group system. The gene encoding XKR5 maps to human chromosome 8, which is made up of nearly 146 million bases and encodes about 800 genes. There are two isoforms of XKR5 that are produced as a result of alternative splicing events.

### REFERENCES

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### CHROMOSOMAL LOCATION

Genetic locus: XKR5 (human) mapping to 8p23.1.

### SOURCE

XKR5 (G-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of XKR5 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-98210 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

### APPLICATIONS

XKR5 (G-20) is recommended for detection of XKR5 of 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); non cross-reactive with other XKR family members.

Suitable for use as control antibody for XKR5 siRNA (h): sc-77599, XKR5 shRNA Plasmid (h): sc-77599-SH and XKR5 shRNA (h) Lentiviral Particles: sc-77599-V.

Molecular Weight of XKR5 isoform 1: 75 kDa.

Molecular Weight of XKR5 isoform 2: 56 kDa.

### 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.