**BACKGROUND**

Blood-group antigens are generally defined as molecules formed by sequential addition of saccharides to the carbohydrate side chains of lipids and proteins detected on erythrocytes and certain epithelial cells. The A, B and H antigens are reported to undergo modulation during malignant cellular transformation. Blood group related antigens are usually mucin-type, and are detected on erythrocytes, certain epithelial cells, and in secretions of certain individuals. 16 genetically and biosynthetically distinct but inter-related specificities belong to this group of antigens, including A (1 and 2), B, H (1 and 2), M, N, Lewis A, Lewis B, Lewis X, Lewis Y, and precursor type 1 chain antigens.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: ABO (human) mapping to 9q34.2.

**SOURCE**

Blood Group A antigen (HE-10) is a mouse monoclonal antibody raised against a mixture of erythrocytes of blood group A1 and glycoprotein fraction isolated from the saliva of secretors with blood group A of human origin.

**PRODUCT**

Each vial contains 500 µl culture supernatant containing IgM with < 0.1% sodium azide.

**APPLICATIONS**

Blood Group A antigen (HE-10) is recommended for detection of Blood Group A antigen of human origin by Western Blotting (starting dilution to be determined by researcher, dilution range 1:10-1:200), immunoprecipitation [10-20 µl per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution to be determined by researcher, dilution range 1:10-1:200) and immunohistochemistry (including paraffin-embedded sections) (starting dilution to be determined by researcher, dilution range 1:10-1:200).

Positive Controls: human skin extract: sc-363777.

**DATA**

Blood Group A antigen (HE-10): sc-59459. Western blot analysis of Blood Group A antigen expression in human skin tissue extract.

**SELECT PRODUCT CITATIONS**


**STORAGE**

For immediate and continuous use, store at 4° C for up to one month. For sporadic use, freeze in working aliquots in order to avoid repeated freeze/thaw cycles. If turbidity is evident upon prolonged storage, clarify solution by centrifugation.

**RESEARCH USE**

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

**PROTOCOLS**

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