Blood Group H2 (BRIC231): sc-59467

**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 modification 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. The expressions of the H1 and H2 in different cell types are controlled by different genes. Blood Group H1 (O) is a member of a group of murine monoclonal antibodies that detects blood group specificities of the ABH and Lewis systems.

**REFERENCES**


**SOURCE**

Blood Group H2 (BRIC231) is a mouse monoclonal antibody raised against HEL erythroleukemia cells of human origin.

**PRODUCT**

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

Blood Group H2 (BRIC231) is available conjugated to agarose (sc-59467 AC), 500 μg/0.25 ml agarose in 1 ml for IP; to HRP (sc-59467 HRP), 200 μg/ml, for WB, HCOIP and ELISA; to either phycoerythrin (sc-59467 PE), fluorescein (sc-59467 FITC), Alexa Fluor® 488 (sc-59467 AF488), Alexa Fluor® 546 (sc-59467 AF546), Alexa Fluor® 594 (sc-59467 AF594) or Alexa Fluor® 647 (sc-59467 AF647), 200 μg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 880 (sc-59467 AF880) or Alexa Fluor® 790 (sc-59467 AF790), 200 μg/ml, for Near-Infrared (NIR) WB, IF and FCM.

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**STORAGE**

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

**APPLICATIONS**

Blood Group H2 (BRIC231) is recommended for detection of Blood Group H2 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)] and flow cytometry (1 μg per 1 x 10^6 cells); non-cross-reactive with O (Bombay) and may cross-react weakly with A1 erythrocytes.

Positive Controls: HEL 92.1.7 cell lysate: sc-2270, HL-60 whole cell lysate: sc-2209 or MOLT-4 cell lysate: sc-2233.

**RECOMMENDED SECONDARY REAGENTS**

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgG BP-HRP: sc-516102 or m-IgG BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminal Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml).

**DATA**

![Blood Group H2 (BRIC231): sc-59467 Western blot analysis of Blood Group H2 expression in HEL 92.1.7 (A), HL-60 (B) and MOLT-4 (C) whole cell lysates.](image)

![Blood Group H2 (BRIC231) Alexa Fluor® 488: sc-59467 AF488. Direct immunofluorescence staining of formalin-fixed SW480 cells showing membrane localization. Blocked with UltraCruz® Blocking Reagent: sc-516214.](image)

**SELECT PRODUCT CITATIONS**


**RESEARCH USE**

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