

# Anti-Lewis y/b hapten [NCRC37]

**Catalogue number:** 152939

**Sub-type:** Primary antibody

**Images:**

## Contributor

**Inventor:** Lindy Durrant

**Institute:** University of Nottingham

**Images:**

## Tool details

**\*FOR RESEARCH USE ONLY**

**Name:** Anti-Lewis y/b hapten [NCRC37]

**Alternate name:**

**Class:** Monoclonal

**Conjugate:** Unconjugated

**Description:** Blood group related antigens are a group of carbohydrate determinants present on both glycoproteins and glycolipids. They are usually mucin-type, and are detected on erythrocytes, certain epithelial cells, and in secretions of certain individuals. Lewis- y/b is a cell surface carbohydrate blood group antigen expressed at very low levels in normal tissue, but often found to be over-expressed on breast, lung, colon and ovarian cancer cells. Lewis-y antigen, a difucosylated tetrasaccharide, is found on type 2 blood group oligosaccharides. The antibody, NCRC37, is a pan-reactive, anti-colorectal tumour antibody and binds strongly to colorectal tumour cells and to post mortem cryopreserved tissues of brain, spleen, heart, lung, kidney, testes, oesophagus or stomach. Lewis y antigen has been evaluated as a clinical marker for the diagnosis and prognosis of cholangiocarcinoma, hepatocellular carcinoma and breast cancer.

**Purpose:**

**Parental cell:**

**Organism:**

**Tissue:**

**Model:**

**Gender:**

**Isotype:** IgG1

**Reactivity:** Human

**Selectivity:**

**Host:** Mouse

**Immunogen:** Tissue cultured colorectal tumor cell lines (C170, C146, Colo205, and JW)

**Immunogen UNIPROT ID:**

**Sequence:**

**Growth properties:**

**Production details:**

**Formulation:**

**Recommended controls:** C14 (NCRC10)

**Bacterial resistance:**

**Selectable markers:**

**Additional notes:**

## Target details

**Target:** Sialyltetraosylceramiden antigen on colorectal tumor cell surface

**Target alternate names:**

**Target background:** Blood group related antigens are a group of carbohydrate determinants present on both glycoproteins and glycolipids. They are usually mucin-type, and are detected on erythrocytes, certain epithelial cells, and in secretions of certain individuals. Lewis- y/b is a cell surface carbohydrate blood group antigen expressed at very low levels in normal tissue, but often found to be over-expressed on breast, lung, colon and ovarian cancer cells. Lewis-y antigen, a difucosylated tetrasaccharide, is found on type 2 blood group oligosaccharides. The antibody, NCRC37, is a pan-reactive, anti-colorectal tumour antibody and binds strongly to colorectal tumour cells and to post mortem cryopreserved tissues of brain, spleen, heart, lung, kidney, testes, oesophagus or stomach. Lewis y antigen has been evaluated as a clinical marker for the diagnosis and prognosis of cholangiocarcinoma, hepatocellular carcinoma and breast cancer.

**Molecular weight:**

**Ic50:**

## Applications

**Application:** ELISA ; FACS ; IHC ; Fn

**Application notes:**

## Handling

**Format:** Liquid

**Concentration:** 1.14 mg/ml

**Passage number:**

**Growth medium:**

**Temperature:**

**Atmosphere:**

**Volume:**

**Storage medium:**

**Storage buffer:** PBS with 0.02% azide

**Storage conditions:** -15° C to -25° C

**Shipping conditions:** Shipping at 4° C

## Related tools

**Related tools:**

## References

**References:**

CancerTools.org