



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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See the following pages for more information!



### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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## Mouse anti HLA-DR

Catalogue number: **MUB2051P**

Clone	Bra30
Isotype	IgG2a
Product Type	Primary Antibodies
Units	0.5ml
Host	Mouse
Species reactivity	Human
Application	Flow cytometry Immunoblotting Immunocytochemistry Immunohistochemistry (frozen) Immunoprecipitation

## Distributors

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### Background

The major histocompatibility complex (MHC) is a cluster of genes that play an important role in the immune response. In humans, this complex is referred to as the Human Leucocyte Antigen (HLA) system and is located on chromosome 6. In humans the MHC II locus includes genes for alpha and beta subunits of the three class II MHC proteins HLA-DR, HLA-DQ and HLA-DP. The HLA class II alpha and beta genes are highly polymorphic with the exception of HLA-DR alpha gene, which is reported to be monomorphorphic. HLA class II glycoproteins are expressed as alpha/beta heterodimers on the surface of antigen presenting cells such as dendritic cells, B-cells and monocytes. Their primary function is to present foreign antigen derived peptides to CD4 positive T-cells. HLA-class II molecules also play an important role in developing and maintaining tolerance to self-antigens and in transplant rejection. HLA-DR molecules have been associated with a range of autoimmune diseases including rheumatoid arthritis, Grave's disease and multiple sclerosis.

### Source

Bra30 is a mouse monoclonal IgG2a antibody derived by fusion of mouse myeloma cells with cells from a mouse immunized with REH-6 cells, a human pre-B cell leukaemia cell line.

### Product

Each vial contains 500 µl 0.2 mg/ml purified monoclonal antibody in phosphated buffered saline (PBS) containing 50% glycerol + 0.2% bovine serum albumin (BSA) + 0.02% sodium azide.

**Applications**

The Bra30 antibody is suitable for the detection of HLA Class II antigen by flow cytometry, immunocytochemistry and immunohistochemistry on frozen tissues. The antibody is also suitable for the detection of HLA class II by immunoprecipitation and western blotting. Optimal antibody dilutions for the different applications should be determined by titration.

**Specificity**

The antibody Bra30 is directed against a monomorphic determinant of human HLA Class II. The antibody recognises an epitope on the HLA-DR molecule that is dependent on the association of both heavy and light chains of the HLA class II molecule. The antibody does not cross react with either HLA-DP or HLA-DQ molecules. The antibody has not been tested for cross reactivity with other species.

**Storage**

Store at 4°C, or in small aliquots at -20°C.

**References**

1. Poláková K, Karpatová M.(1990).Study of monomorphic determinants on DR molecules of HLA class II antigens. Neoplasma. 37:239-51.
2. Lahat N, Bitterman H, Weiss-Cerem L, Rahat MA.(2011). Hypoxia increases membranous and secreted HLA-DR in endothelial cells, rendering them T-cell activators.Transpl. Int. 24:1018-26.

**Caution**

This product is intended FOR RESEARCH USE ONLY, and FOR TESTS IN VITRO, not for use in diagnostic or therapeutic procedures involving humans or animals. This datasheet is as accurate as reasonably achievable, but Nordic-MUBio accepts no liability for any inaccuracies or omissions in this information.