## HLA-Pan / MHCII Recombinant Monoclonal Mouse Antibody (rHLA-Pan/3475)



## **Product Description**

Reacts with a common epitope of human major histocompatibility (MHC) class II antigens, HLA-DP, -DQ and -DR. Human MHC class II antigens are transmembrane glycoproteins composed of an alpha chain (36 kDa) and a beta chain (27 kDa). They are expressed primarily on antigen presenting cells such as B lymphocytes, monocytes, macrophages, and thymic epithelial cells and are also present on activated T lymphocytes. Human MHC class II genes are located in the HLA-D region that encodes at least six alpha and ten beta chain genes. Three loci, DR, DQ and DP, encode the major expressed products of the human class II region. The human MHC class II molecules bind intracellularly processed peptides and present them to T-helper cells. They, therefore, have a critical role in the initiation of the immune response.

Primary antibodies are available purified, or with a selection of fluorescent CF® dyes and other labels. CF® dyes offer exceptional brightness and photostability. See the CF® Dye Brochure for more information. Note: Conjugates of blue fluorescent dyes like CF®405S and CF®405M are not recommended for detecting low abundance targets, because blue dyes have lower fluorescence and can give higher non-specific background than other dye colors.

**Stock status:** Because Biotium offers a large number of antibody and conjugation options, primary antibody conjugates may be made to order. Typical lead times are up to one week for CF® dye and biotin conjugates, and up to 2-3 weeks for fluorescent protein and enzyme conjugates. Please email <a href="mailto:order@biotium.com">order@biotium.com</a> to inquire about stock status and lead times before placing your order.

Catalog number key for antibody number 3475, Anti-HLA-Pan|MHCII (rHLA-Pan/3475)

## Product attributes

| Product attributes                    |   |  |  |
|---------------------------------------|---|--|--|
| Antibody number                       | #3475   |  |  |
| Antibody reactivity (target)          | HLA-Pan, MHCII  |  |  |
| Antibody type                         | Primary   |  |  |
| Host species                          | Mouse   |  |  |
| Clonality                             | Recombinant Monoclonal  |  |  |
| Clone                                 | rHLA-Pan/3475   |  |  |
| Isotype                               | IgG1, kappa   |  |  |
| Molecular weight                      | 33-35 kDa   |  |  |
| Synonyms                              | HLA-DPB1; HLA-DQA1; HLA-DQB1; HLA-DRA; HLA-DRB1;<br>HLA-DRB3; HLA-DRB4; HLA-DRB5  |  |  |
| Human gene symbol                     | HLA-DP; HLA-DQ; HLA-DR  |  |  |
| Entrez gene ID                        | 3115; 3117; 3122  |  |  |
| SwissProt                             | P04440; P01908; P01909; P01920; P01903  |  |  |
| Unigene                               | 347270; 550475; 520048  |  |  |
| Immunogen                             | Non-T, non-B human acute lymphoblastic leukemia REH6 cells  |  |  |
| Verified antibody applications        | Flow (verified), IF (verified), IHC (FFPE) (verified)   |  |  |
| Antibody target cellular localization | Plasma membrane   |  |  |
| Species reactivity                    | Human   |  |  |
| Antibody application notes            | For coating for ELISA, order Ab without BSA, Higher concentration may be required for direct detection using primary antibody conjugates than for indirect detection with secondary antibody, Optimal dilution and staining procedure for a specific application should be determined by user, Recommended starting concentrations for titration are 1-2 ug/mL for most applications, or 1 ug/million cells/100 uL for flow cytometry |  |  |
| Positive control                      | Raji cells. Tonsil or lymph node  |  |  |
| Shipping condition                    | Room temperature  |  |  |
| Storage Conditions                    | Store at 2 to 8 °C, Protect fluorescent conjugates from light, Note: store BSA-free antibodies at -10 to -35 °C   |  |  |
| Regulatory status                     | For research use only (RUO)   |  |  |
| Antibody/conjugate formulation        | Conjugates: 0.1 mg/mL in PBS/0.1% BSA/0.05% azide, HRP conjugates: 0.1 mg/mL in PBS/0.05% BSA, Purified: 0.2 mg/mL in PBS/0.05% BSA/0.05% azide, Purified, BSA-free: 1 mg/mL in PBS without azide   |  |  |
| Shelf life                            | Guaranteed for at least 24 months from date of receipt when stored as recommended   |  |  |
| Product origin                        | Product may contain either bovine serum albumin (BSA) from bovine serum (Bos taurus), or recombinant BSA produced in Chinese hamster ovary cells. Inquire for the specific lot.   |  |  |
|                                       |   |  |  |

Call us: 800-304-5357 Email: techsupport@biotium.com

| Antibody # prefix | Conjugation           | Ex/Em (nm) | Laser line | Detection channel           | Dye Features     |
|-------------------|-----------------------|------------|------------|-----------------------------|------------------|
| BNC04             | CF®405S               | 404/431    | 405        | DAPI (microscopy),<br>AF405 | CF®405S Features |
| BNC88             | CF®488A               | 490/515    | 488        | GFP, FITC                   | CF®488A Features |
| BNC68             | CF®568                | 562/583    | 532, 561   | RFP, TRITC                  | CF®568 Features  |
| BNC94             | CF®594                | 593/614    | 561        | Texas Red®                  | CF®594 Features  |
| BNC40             | CF®640R               | 642/662    | 633-640    | Cy®5                        | CF®640R Features |
| BNC47             | CF®647                | 650/665    | 633-640    | Cy®5                        | CF®647 Features  |
| BNC74             | CF®740                | 742/767    | 633-685    | 775/50                      | CF®740 Features  |
| BNCB              | Biotin                | N/A        | N/A        | N/A                         |                  |
| BNUB              | Purified              | N/A        | N/A        | N/A                         |                  |
| BNUM              | Purified,<br>BSA-free | N/A        | N/A        | N/A                         |                  |

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