

## MHC II (DR $\alpha$ chain) Recombinant Rabbit Monoclonal Antibody Product Datasheet

Catalog# BX50193

Clone# BP6171

**Predicted Molecular Wt:** 29kDa  
**Species Cross-reactivity:** Human  
**Applications:** IHC-P

**Purity:** ProA affinity purified IgG  
**Form:** Liquid  
**Swissprot ID:** P01903

### Background:

Major histocompatibility complex class II (MHC class II) molecules are heterodimeric, transmembrane glycoproteins expressed on the surface of antigen-presenting cells such as macrophages, dendritic cells, and B cells. Expression can also be induced on other cell types through interferon- $\gamma$  signaling. Prior to being displayed on the cell membrane, MHC class II molecules are loaded with exogenous peptide antigens approximately 15-24 amino acids in length that were derived from endocytosed extracellular proteins digested in the lysosome. Antigen-presentation through MHC class II is required for T cell activation during the immune response to extracellular pathogens. In humans, the MHC class II protein complex is encoded by the human leukocyte antigen gene complex (HLA).

### Subcellular location:

Membrane

### Recommended method:

Heat induced epitope retrieval with Tris-EDTA buffer (pH 9.0), primary antibody incubate at RT (18°C-25°C) for 30 minutes.

### Immunogen:

Synthetic peptide near C-terminal residues in Human MHC II (DR  $\alpha$  chain) was used as an immunogen.

### Storage Buffer:

PBS 59%, Sodium azide 0.01%, Glycerol 40%, BSA 0.05%.

### Storage conditions:

-25°C to -18°C

### Storage instructions:

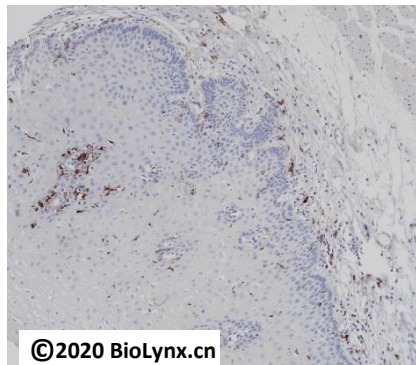
Shipped on blue ice. Upon delivery, aliquot, and store at -25°C to -18°C. Avoid freeze / thaw cycles.

### Recommended Dilutions:

IHC-P: 1:100-1:200

### Background References:

1. Temponi, M. et al. J Immunol Methods 161 (1993) .
2. Ting, J.P. and Trowsdale, J. Cell 109 Suppl (2002) .



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human esophagus tissue labelling DR  $\alpha$  chain of MHC II with BP6171. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9.0

Product QC'd by: 

For research use only. Not for use in diagnostic or therapeutic applications.