

## MHC I Recombinant Rabbit Monoclonal Antibody Product Datasheet

Catalog# BX50257

Clone# BP6234

**Predicted Molecular Wt:** 40/41kDa

**Species Cross-reactivity:** Human

**Applications:** IHC-P

**Purity:** ProA affinity purified IgG

**Form:** Liquid

**Swissprot ID:** P04439/P01889/P10321

### Background:

Major Histocompatibility Complex (MHC) is a genetic region on chromosomes composed of tightly linked highly polymorphic gene loci that encode cell surface specific proteins, depending on the structure and function of genes and coding products. We divide MHC into class I, class II and class III gene regions. Endogenous antigen presentation is presented by the major histocompatibility complex I (MHC I) pathway. Intracytoplasmic proteins are decomposed into peptides during protease degradation, which in turn are delivered by HSP41 and HSP90 proteins to TAP on the membrane.

MHC I is widely distributed on the surface of almost all nucleated cells, including spleen, lymph nodes and thymus lymphocytes in normal tissues. It is also expressed in skin, lung, kidney, liver and heart tissues. It is also widely expressed in tumor tissues.

MHC I molecular typing is related to the matching of organ transplantation and bone marrow transplantation, as well as a variety of autoimmune diseases.

### 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:

Recombinant protein fragment of HLA-A 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

### Shipment Instructions:

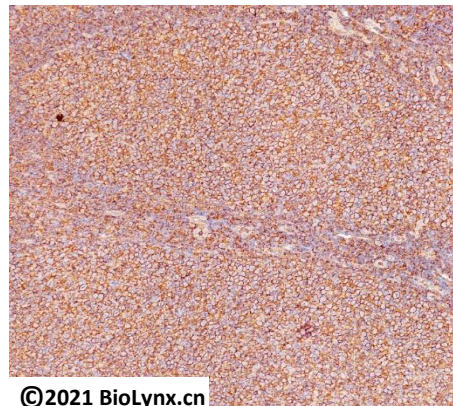
Shipped on blue ice. Upon delivery store at -25°C to -18°C. Avoid freeze / thaw cycles.

### Recommended Dilution:

IHC-P: 1:100-1:200

### Background References:

1. Wang K et al. Mol Med Rep 22:2052-2062 (2020).
2. Klein S et al. Cancer Immunol Immunother 68:973-982 (2019).



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Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of tonsil labelling MHC I with BP6234.

Product QC'd by:



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