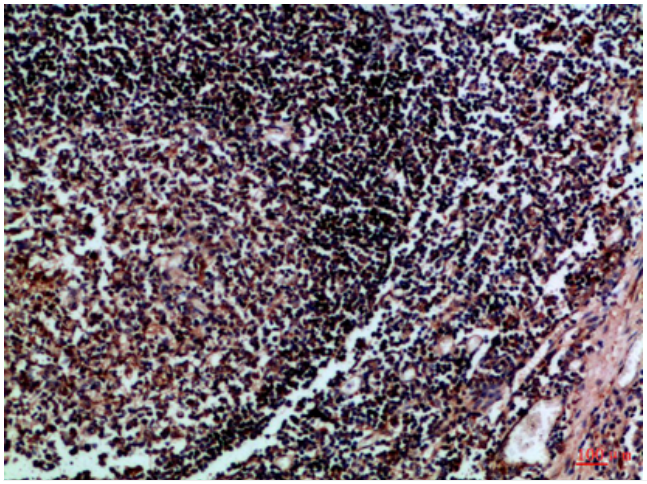
HLA-DMβ Polyclonal Antibody

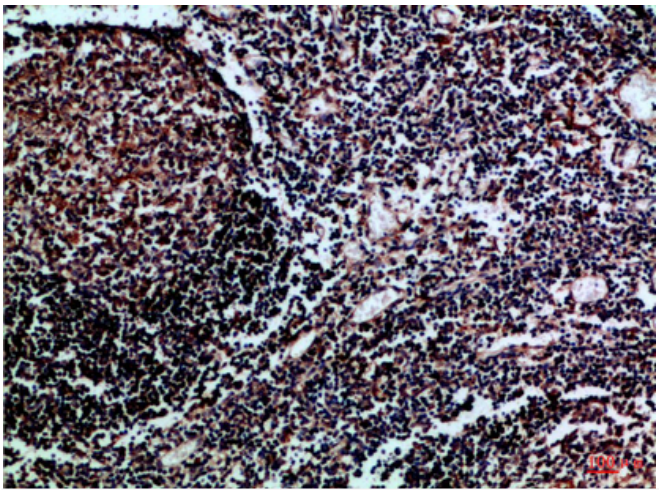
Catalog No	YP-Ab-10732
Isotype	IgG
Reactivity	Human
Applications	IHC;IF;ELISA
Gene Name	HLA-DMB DMB RING7
Protein Name	HLA class II histocompatibility antigen, DM beta chain (MHC class II antigen DMB) (Really interesting new gene 7 protein)
Immunogen	Synthetic peptide from human protein at AA range: 40-100
Specificity	The antibody detects endogenous HLA-DMβ
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	IHC-p 1:50-200, ELISA 1:10000-20000. IF 1:50-200
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	HLA class II histocompatibility antigen, DM beta chain (MHC class II antigen DMB;Really interesting new gene 7 protein)
Observed Band	
Cell Pathway	Late endosome membrane ; Single-pass type I membrane protein . Lysosome membrane ; Single-pass type I membrane protein . Localizes to late endocytic compartment. Associates with lysosome membranes.
Tissue Specificity	Blood,Lymph,Plasma,Spleen,
Function	domain:The YXXZ (Tyr-Xaa-Xaa-Zaa, where Zaa is a hydrophobic residue) motif mediates the targeting to the lysosomal compartments.,function:Plays a critical role in catalyzing the release of class II HLA-associated invariant chain-derived peptides (CLIP) from newly synthesized class II HLA molecules and freeing the peptide binding site for acquisition of antigenic peptides.,polymorphism:The following alleles of DMB are known: DMB*0101, DMB*0102, DMB*0103, DMB*0104 (DMB3.4), DMB*0105 and DMB*0106. The sequence shown is that of DMB*0101.,similarity:Belongs to the MHC class II family.,similarity:Contains 1 Ig-like C1-type (immunoglobulin-like) domain.,subcellular location:Localizes to late endocytic compartment. Associates with lysosome membranes.,subunit:Heterodimer of an alpha chain (DMA) and a beta chain (DMB).,

Background	HLA-DMB belongs to the HLA class II beta chain paralogues. This class II molecule is a heterodimer consisting of an alpha (DMA) and a beta (DMB) chain, both anchored in the membrane. It is located in intracellular vesicles. DM plays a central role in the peptide loading of MHC class II molecules by helping to release the CLIP (class II-associated invariant chain peptide) molecule from the peptide binding site. Class II molecules are expressed in antigen presenting cells (APC: B lymphocytes, dendritic cells, macrophages). The beta chain is approximately 26-28 kDa and its gene contains 6 exons. Exon one encodes the leader peptide, exons 2 and 3 encode the two extracellular domains, exon 4 encodes the transmembrane domain and exon 5 encodes the cytoplasmic tail. [provided by RefSeq, Jul 2008],
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

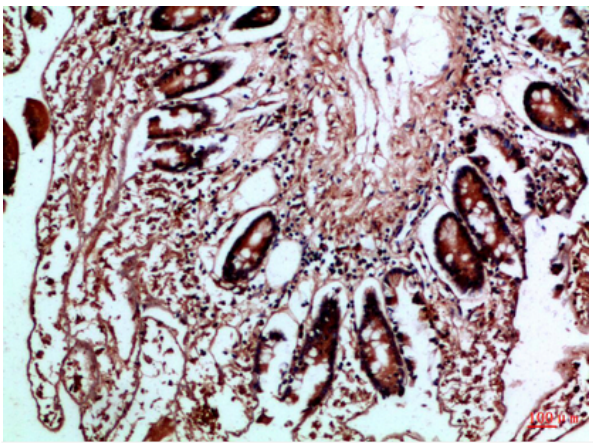
Products Images



Immunohistochemical analysis of paraffin-embedded Human-tonsil, antibody was diluted at 1:100



Immunohistochemical analysis of paraffin-embedded Human-tonsil, antibody was diluted at 1:100



Immunohistochemical analysis of paraffin-embedded Human-colon, antibody was diluted at 1:100