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Datasheet for ABIN1107562 **anti-HLA B7 antibody**

Overview

Quantity:	0.1 mg
Target:	HLA B7
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This HLA B7 antibody is un-conjugated
Application:	Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	Native purified from lymphocytes of HLA-B27 individual.
Clone:	EP-4
Isotype:	IgM
Specificity:	<p>This antibody clone EP-4 recognizes the HLA-B27 cell surface antigen on Human cells. Since EP-4 recognizes the HLA-B27 antigen, it may be used to HLA type human lymphocytes.</p> <p>Approximately 60 % of patients with ankylosing spondylitis are HLA-B27 positive. This reagent can be used to help identify this HLA haplotype in Human lymphocytes. Monoclonal antibody EP-4 recognizes the HLA-B27 antigen expressed on individuals with this HLA haplotype.</p>
Cross-Reactivity (Details):	Species reactivity (tested):Human.
Purification:	Purified

Target Details

Target:	HLA B7
Abstract:	HLA B7 Products
Background:	<p>HLA-B belongs to the HLA class I heavy chain paralogues. This class I molecule is a heterodimer consisting of a heavy chain and a light chain (beta-2 microglobulin). The heavy chain is anchored in the membrane. Class I molecules play a central role in the immune system by presenting peptides derived from the endoplasmic reticulum lumen. They are expressed in nearly all cells. The heavy chain is approximately 45 kDa and its gene contains 8 exons. Exon 1 encodes the leader peptide, exon 2 and 3 encode the alpha1 and alpha2 domains, which both bind the peptide, exon 4 encodes the alpha3 domain, exon 5 encodes the transmembrane region and exons 6 and 7 encode the cytoplasmic tail. Polymorphisms within exon 2 and exon 3 are responsible for the peptide binding specificity of each class one molecule. Typing for these polymorphisms is routinely done for bone marrow and kidney transplantation. Hundreds of HLA-B alleles have been described</p> <p>Synonyms: B-7 alpha chain, HLA class I histocompatibility antigen, HLAB, MHC class I antigen B7</p>
Gene ID:	3106
NCBI Accession:	NP_005505
UniProt:	P01889
Pathways:	Human Leukocyte Antigen (HLA) in Adaptive Immune Response

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

Handling

Concentration:	0.1 mg/mL
Buffer:	PBS, 0.05 % Sodium Azide
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C

Handling

Storage Comment: Store the antibody undiluted at 2-8 °C for one month or -20 °C for longer.