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Datasheet for ABIN5691100 anti-HLA Class I Heavy Chain antibody

3 Images

10 Publications



Overview

Quantity:	0.1 mg
Target:	HLA Class I Heavy Chain
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	Un-conjugated
Application:	Flow Cytometry (FACS), Immunoprecipitation (IP), ELISA, Western Blotting (WB), Electron Microscopy (EM), Immunocytochemistry (ICC), Immunohistochemistry (Frozen Sections) (IHC (fro)), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))
Product Details	
Immunogen:	HC10 is a mouse monoclonal IgG2a antibody derived by fusion of SP2/0-Ag14 mouse
	myeloma cells with spleen cells from BALB/c mice immunized with HLA-B7 and -B40 heavy chains.
Clone:	myeloma cells with spleen cells from BALB/c mice immunized with HLA-B7 and -B40 heavy chains. HC10
Clone: Isotype:	myeloma cells with spleen cells from BALB/c mice immunized with HLA-B7 and -B40 heavy chains. HC10 IgG2a

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Target Details	
Target:	HLA Class I Heavy Chain
Background:	The HLA class I gene family is composed of a group of genes whose products encode cell surface glycoproteins of MW 40-45 kDa, associated non-covalently with the beta-2- microglobulin light chain. They include the three polymorphic molecules HLA-A, -B, and -C, which are ubiquitously expressed and which are able to present intracellular peptides to cytotoxic T cells. Three additional class I genes are known, commonly referred to as non- classical or class Ib genes, all highly homologous to the other class I genes and all of which associate with beta-2-microglobulin light chain. In humans, each of the class Ib genes appears to exhibit a distinct pattern of expression in developing and adult tissues. HLA-E transcripts are distributed widely in adult tissues and have also been found in the placenta and fetal liver. In the adult, the presence of HLA-F has been shown in skin, resting T cells, and B cells, whereas its expression during development has been reported in fetal liver and at low levels in placenta and extra-placental tissues. HLA-G was originally thought to be expressed only in certain populations of placental trophoblasts, but low levels have also been found in a variety of human tissues. Recently it was shown that HLA class I expression in breast cancer cells can have a predictive value for chemotherapy response.
Application Details	
Application Notes:	HC10 was raised against free class I heavy chains of HLA antigens to obtain antibodies that would still react with denatured class I antigens, as they occur in Western blotting, conventional light microscopical analysis of formalin-fixed, paraffin-embedded sections, and cryo-immuno- electron microscopy. HC10 indeed retains strong reactivity with free class I heavy chains in Western blots. HC10 also produces strong reactivity in immuno-electron microscopy. Its use allows the determination of tissue and subcellular distribution of class I antigen and can be used to specifically block free heavy chains (FHC), See reference 6. Optimal antibody dilutions for the different applications should be determined by titration, recommended range is 1:100 - 1:200 for flow cytometry, and for immunohistochemistry with avidin-biotinylated horseradish peroxidase complex (ABC) as detection reagent, and 1:100 - 1:1000 for immunoblotting applications.
Restrictions:	For Research Use only

Handling

Buffer:

Each vial contains 100 μL 1 mg/mL purified monoclonal antibody in PBS containing 0.09 % sodium azide.

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act contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which handled by trained staff only. C. C, or in small aliquots at -20°C. amsay, Ahanfeshar-Adams, Lajoie, Schadendorf, Alain, Watson: "Mutations in the IFN AT pathway causing resistance to immune checkpoint inhibitors in melanoma ensitivity to oncolytic virus treatment." in: Clinical cancer research : an official the American Association for Cancer Research , (2021) (PubMed).
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Flow Cytometry

Image 1. Flow cytometry analysis of HD5 and control antibodies (i.e. HC10 (ABIN5691100)) binding to LBL721.220 cells. See PMID26125554 for details.



Image 2. HC10 dilution 1: 20000 immunostaining of human tonsil tissue in paraffin section



Immunohistochemistry

Image 3. Antigen retrieval was carried out at 121°C for 15 minutes. The sections (Colorectal Carcinoma) were incubated in primary antibody for 12 hours for HLA class I heavy chain (1:200 dilution, ABIN5691100) at room temperature.

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