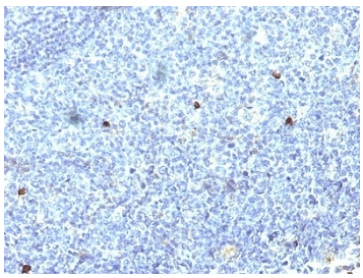
HLA-Aw32 Antibody SPM418 / HLA-A25 Antibody [clone SPM418] (V2573)

Catalog No.	Formulation	Size
V2573-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V2573-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V2573SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V2573IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2a, kappa
Clone Name	SPM418
Purity	Protein G affinity chromatography
UniProt	P30443
Localization	Cell surface
Applications	Immunohistochemistry (FFPE): 1-2ug/ml for 30 min at RT
Limitations	This HLA-Aw32 Antibody SPM418 / HLA-A25 Antibody is available for research use only.



HLA-Aw32 Antibody SPM418 in Human Tonsil IHC. Immunohistochemistry testing of clone SPM418 in FFPE human tonsil tissue. HIER was performed by boiling tissue sections in 10 mM citrate buffer, pH 6, for 10-20 min followed by cooling at RT for 20 min. HLA-Aw32 immunoreactivity is observed in a distinct population of cells distributed throughout the tonsillar lymphoid tissue, with the surrounding tissue showing comparatively lower staining.

Description

HLA-Aw32 Antibody SPM418 / HLA-A25 Antibody recognizes HLA-A class I antigens within the human major histocompatibility complex. HLA-A is one of the classical HLA class I loci, together with HLA-B and HLA-C, and encodes highly polymorphic cell-surface glycoproteins involved in antigen presentation. HLA class I molecules display peptides derived primarily from intracellular proteins to CD8-positive T lymphocytes, enabling immune surveillance and recognition of infected, transformed or otherwise abnormal cells.

HLA-A molecules consist of a polymorphic transmembrane heavy chain associated non-covalently with beta-2 microglobulin. The extracellular portion of the heavy chain contains alpha-1, alpha-2 and alpha-3 domains. The alpha-1 and alpha-2 domains form the peptide-binding groove, while beta-2 microglobulin contributes to structural stability of the assembled complex. Extensive polymorphism within HLA-A influences the repertoire of peptides that can be presented and contributes to the diversity of human adaptive immune responses.

HLA-Aw32 is the historical serological designation associated with the HLA-A32 antigen group. HLA-A25 represents another serologically defined HLA-A specificity, with modern molecular nomenclature further subdividing these antigen groups into individual alleles. Defined HLA specificities have long been important in histocompatibility research because variation among HLA molecules can influence immune recognition, transplantation compatibility and susceptibility to immune-mediated disease.

HLA-A molecules participate in interactions with both adaptive and innate immune systems. Peptide-HLA complexes are surveyed by cytotoxic T lymphocytes through the T cell receptor and CD8 coreceptor, while HLA class I molecules can also interact with inhibitory and activating receptors on natural killer cells. Changes in HLA expression or peptide presentation can therefore alter immune recognition and contribute to mechanisms of immune evasion in infection and cancer.

Clone SPM418 is a mouse monoclonal antibody directed against HLA-A class I antigens. NSJ Bioreagents provides this HLA-Aw32 Antibody for research into HLA polymorphism, histocompatibility and MHC class I biology. An HLA-A25 Antibody can support investigation of defined HLA-A antigenic specificities and their roles in immune recognition.

For additional information on HLA-Aw32 and HLA-A25 biology and complementary antibody validation, visit our HLA-Aw32 + HLA-A25 Antibody CATA-1 / HLA-A Antibody page.

Application Notes

Optimal dilution of the HLA-Aw32 Antibody SPM418 / HLA-A25 Antibody should be determined by the researcher.

1. Staining of formalin/paraffin tissues requires boiling tissue sections in pH 9 10mM Tris with 1mM EDTA for 10-20 min followed by cooling at RT for 20 min.
2. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min.

Immunogen

Normal human peripheral blood lymphocytes of phenotype A1, Aw32, B7, B37, Cw-, Cw-, DR2, and DRw10 were used as the immunogen for the HLA-Aw32 Antibody SPM418 / HLA-A25 Antibody.

Storage

Store the HLA-Aw32 Antibody SPM418 at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

Alternate Names

HLA-Aw32 antibody, HLA-A25 antibody, HLA-A antibody, HLA-A32 antibody, HLA-A32 antibody, HLA-A25 antibody

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