

## Product Datasheet

### CD79a Antibody (orb2640382)

<b>Description</b>	A disulphide-linked heterodimer, consisting of mb-1 (or CD79a) and B29 (or CD79b) polypeptides, is non-covalently associated with membrane-bound immunoglobulins on B cells. This complex of mb-1 and B29 polypeptides and immunoglobulin constitute the B cell Ag receptor. CD79a first appears at pre B cell stage, early in maturation, and persists until the plasma cell stage where it is found as an intracellular component. CD79a is found in the majority of acute leukemias of precursor B cell type, in B cell lines, B cell lymphomas, and in some myelomas. It is not present in myeloid or T cell lines. Anti-CD79a is generally used to complement anti-CD20 especially for mature B-cell lymphomas after treatment with Rituximab (anti-CD20). This antibody will stain many of the same lymphomas as anti-CD20, but also is more likely to stain B-lymphoblastic lymphoma/leukemia than is anti-CD20. Anti-CD79a also stains more cases of plasma cell myeloma and occasionally some types of endothelial cells as well.
<b>Species/Host</b>	Rabbit
<b>Reactivity</b>	Human, Mouse, Rat
<b>Conjugation</b>	Unconjugated
<b>Tested Applications</b>	FACS, IF, IHC-P, WB
<b>Immunogen</b>	Amino acids 202-216 (GTYQDVGSLNIADVQ) were used as the immunogen for the recombinant CD79a antibody.
<b>Preservatives</b>	0.2 mg/ml in 1X PBS with 0.1 mg/ml rAlbumin (US sourced) and 0.05% sodium azide
<b>Storage</b>	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
<b>Note</b>	For research use only

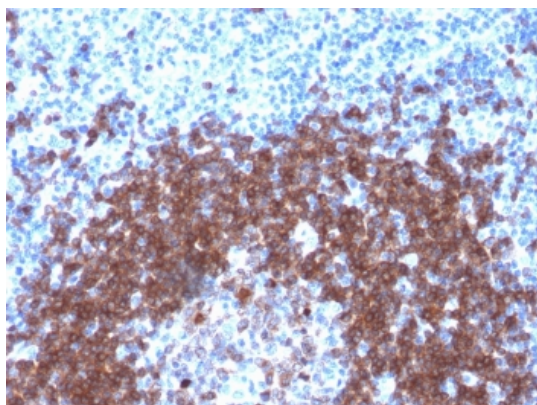
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<b>Application notes</b>	Optimal dilution of the recombinant CD79a antibody should be determined by the researcher.1. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min.
<b>Formula</b>	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide
<b>Isotype</b>	Rabbit IgG, kappa
<b>Clonality</b>	Recombinant
<b>Clone Number</b>	IGA/1790R
<b>Purity</b>	Protein A affinity chromatography
<b>Uniprot ID</b>	<b>P11912</b>
<b>Hazard Information</b>	This recombinant CD79a antibody is available for research use only.
<b>Dilution Range</b>	Immunofluorescence: 1-2ug/ml,Flow cytometry: 1-2ug/million cells,Western blot: 1-2ug/ml,Immunohistochemistry (FFPE): 1-2ug/ml for 30 min at RT
<b>Expiration Date</b>	12 months from date of receipt.



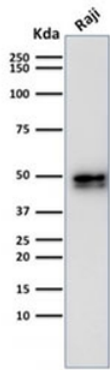
IHC testing of FFPE human tonsil with recombinant CD79a antibody (clone IGA/1790R). Required HIER: boil tissue sections in pH9 10mM Tris with 1mM EDTA for 10-20 min followed by cooling at RT for 20 min.

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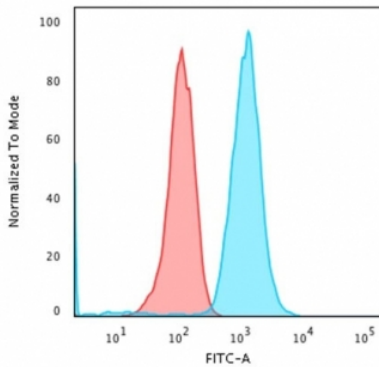
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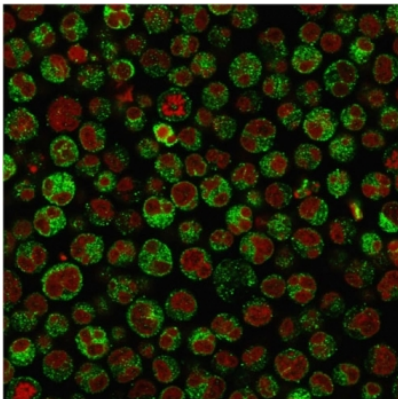
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Western blot testing of human Raji cell lysate with recombinant CD79a antibody (clone IGA/1790R). Expected molecular weight: 25-47 kDa depending on glycosylation level.



Flow cytometry testing of human Raji cells with recombinant CD79a antibody (clone IGA/1790R); Red = isotype control, Blue = CD79a antibody.



Immunofluorescent staining of PFA-fixed human Raji cells with recombinant CD79a antibody (green, clone IGA/1790R) and Reddot nuclear stain (red).

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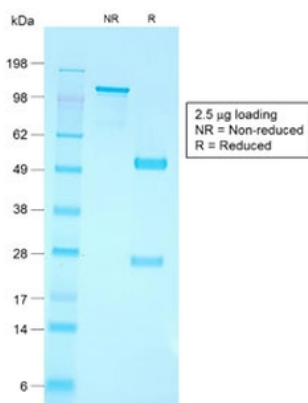
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### Human Protein Microarray Specificity Validation



Analysis of HuProt (TM) microarray containing more than 19,000 full-length human proteins using CD79a antibody (clone IGA/1790R). These results demonstrate the foremost specificity of the IGA/1790R mAb. Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary Ab) produces when binding to a particular protein on the HuProt (TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If the targets on the HuProt (TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-scores. The S-score therefore represents the relative target specificity of an Ab to its intended target.



SDS-PAGE analysis of purified, BSA-free recombinant CD79a antibody (clone IGA/1790R) as confirmation of integrity and purity.

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