Product Datasheet

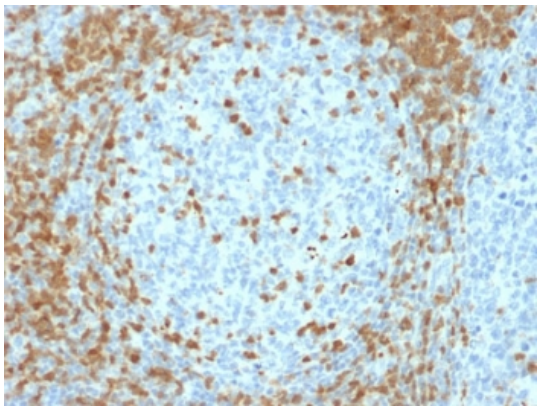
ZAP70 Antibody (orb2641394)

Catalog Number	orb2641394
Category	Antibodies
Description	ZAP70 is a 70kDa protein tyrosine kinase found in T-cells and natural killer cells. Control of this protein translation is via the IgVH gene. ZAP70 protein is expressed in leukemic cells of approximately 25% of chronic lymphocytic leukemia (CLL) cases as well. Anti-ZAP70 expression is an excellent surrogate marker for the distinction between the Ig-mutated (anti-ZAP70 negative) and Ig-unmutated (anti-ZAP70 positive) CLL subtypes and can identify patient groups with divergent clinical courses. The anti-ZAP70 positive Ig-unmutated CLL cases have been shown to have a poorer prognosis.
Clonality	Monoclonal
Species/Host	Mouse
Isotype	Mouse IgG1, kappa
Conjugation	Unconjugated
Reactivity	Human
Buffer/Preservatives	1 mg/ml in 1X PBS; rAlbumin free, sodium azide free
Purification	Protein G affinity chromatography
Immunogen	A portion of amino acids 247-382 from the human protein was used as the immunogen for the ZAP70 antibody.
UniProt ID	P43403
Tested applications	ELISA, FACS, IF, IHC-P

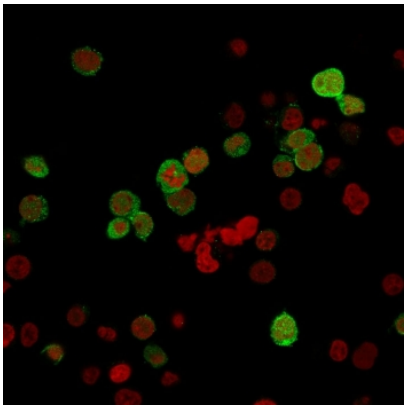
Biorbyt Ltd.
7 Signet Court, Swann Road
Cambridge
CB5 8LA
United Kingdom
Email: info@biorbyt.com, support@biorbyt.com
Phone: +44 (0)1223 859353 | Fax: +1 (415) 651-8558

Biorbyt LLC
68 TW Alexander Drive
Research Triangle Park
Durham
NC 27713-2847
United States
Email: info@biorbyt.com, support@biorbyt.com
Phone: +1 (415) 906-5211 | Fax: +1 (415) 651-8558

Dilution range	Flow cytometry: 1-2ug/10^6 cells,Immunofluorescence: 1-2ug/ml,ELISA: 2-4ug/ml (order BSA/azide-free format),Immunohistochemistry (FFPE): 1-2ug/ml for 30 min at RT
Application notes	Optimal dilution of the ZAP70 antibody should be determined by the researcher.
Antibody Type	Primary Antibody
Clone Number	ZAP70/2035
Storage	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.
Note	For research use only
Expiration Date	12 months from date of receipt.



IHC testing of FFPE human tonsil tissue with ZAP70 antibody (clone ZAP70/2035). HIER: boil tissue sections in pH9 10mM Tris with 1mM EDTA for 10-20 min followed by cooling at RT for 20 min.



Immunofluorescent staining of PFA-fixed human Jurkat cells with ZAP70 antibody (green, clone ZAP70/2035) and Reddot nuclear stain (red).

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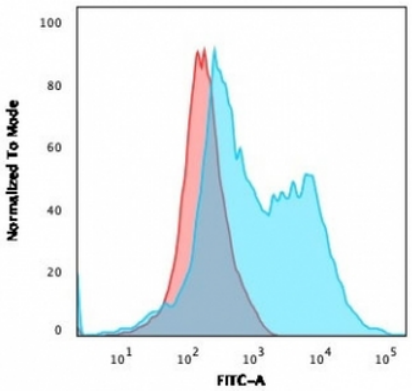
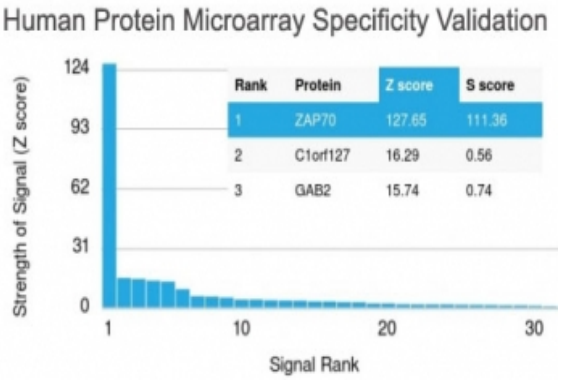
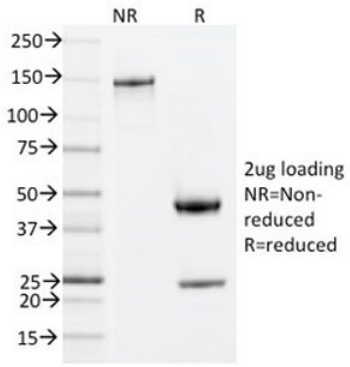


Flow testing of PFA-fixed Jurkat cells with ZAP70 antibody (clone ZAP70/2035); Red = isotype control, Blue = ZAP70 antibody.



Analysis of HuProt (TM) microarray containing more than 19, 000 full-length human proteins using ZAP70 antibody (clone ZAP70/2035). These results demonstrate the foremost specificity of the ZAP70/2035 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 ZAP70 antibody (clone ZAP70/2035) as confirmation of integrity and purity.

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