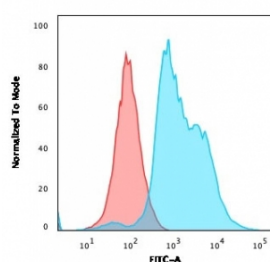


## ZAP70 Antibody [clone ZAP70/2047] (V3946)

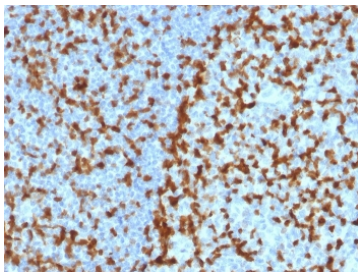
Catalog No.	Formulation	Size
V3946-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V3946-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V3946SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

[Bulk quote request](#)

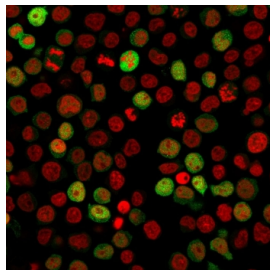
<b>Availability</b>	1-3 business days
<b>Species Reactivity</b>	Human
<b>Format</b>	Purified
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal (mouse origin)
<b>Isotype</b>	Mouse IgG1, kappa
<b>Clone Name</b>	ZAP70/2047
<b>Purity</b>	Protein G affinity chromatography
<b>UniProt</b>	P43403
<b>Localization</b>	Cytoplasmic, cell surface
<b>Applications</b>	ELISA : 2-4ug/ml (order BSA/azide-free format) Flow Cytometry : 1-2ug/10 <sup>6</sup> cells Immunofluorescence : 1-2ug/ml Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT
<b>Limitations</b>	This ZAP70 antibody is available for research use only.



Flow testing of PFA-fixed Jurkat cells with ZAP70 antibody (clone ZAP70/2047);  
Red=isotype control, Blue= ZAP70 antibody.



IHC testing of FFPE human tonsil with ZAP70 antibody (clone ZAP70/2047). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 10-20 min followed by cooling at RT for 20 min.



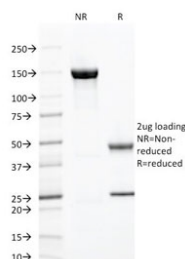
Immunofluorescent staining of PFA-fixed human Jurkat cells with ZAP70 antibody (green, clone ZAP70/2047) and Reddot nuclear stain (red).

Human Protein Microarray Specificity Validation



Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using ZAP70 antibody (clone ZAP70/2047). These results demonstrate the foremost specificity of the ZAP70/2047 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 ZAP70/2047) as confirmation of integrity and purity.

## 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.

## Application Notes

Optimal dilution of the ZAP70 antibody should be determined by the researcher.

## Immunogen

A portion of amino acids 247-382 from the human protein was used as the immunogen for the ZAP70 antibody.

## Storage

Store the ZAP70 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).