Datasheet for ABIN94452

anti-Phosphotyrosine antibody

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Overview

Quantity:	0.1 mg
Target:	Phosphotyrosine
Reactivity:	Various Species
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Phosphotyrosine antibody is un-conjugated
Application:	Western Blotting (WB), Flow Cytometry (FACS), Immunocytochemistry (ICC)

Product Details

Immunogen:	Phosphotyrosine conjugated to bovine serum albumin.
Clone:	P-Tyr-01
Isotype:	IgG1
Specificity:	The antibody P-Tyr-01 detects tyrosine phosphorylation in activated cells.
Cross-Reactivity (Details):	Broad
Purification:	Purified by protein-A affinity chromatography.
Purity:	> 95 % (by SDS-PAGE)

Target Details

Target:	Phosphotyrosine
Abstract:	Phosphotyrosine Products

Target Details

Target Type:	Amino Acid
Background:	PY

Application Details

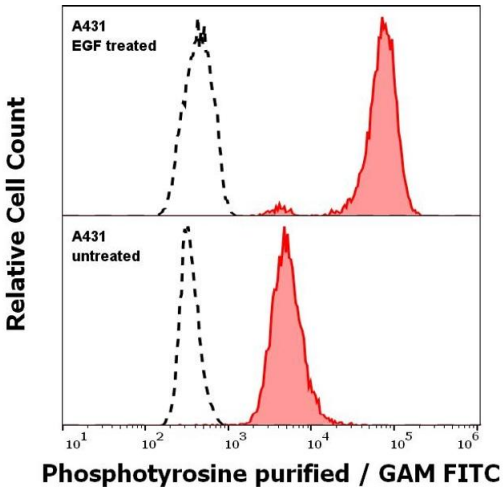
Application Notes:	Western blotting: Recommended dilution: 1-2 µg/mL. Flow cytometry: Recommended dilution: 2-5 µg/mL. Intracellular staining.
Restrictions:	For Research Use only

Handling

Concentration:	1 mg/mL
Buffer:	Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	**Do not freeze.**
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Do not freeze.

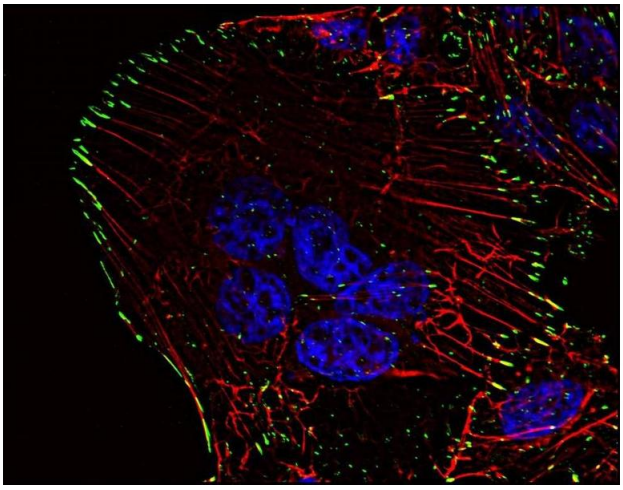
Publications

Product cited in:	Biebl, Riedl, Buchner: "Hsp90 Co-chaperones Form Plastic Genetic Networks Adapted to Client Maturation." in: **Cell reports**, Vol. 32, Issue 8, pp. 108063, (2020) (PubMed). Meraner, Horejsí, Wolpl, Fischer, Stingl, Maurer: "Dendritic cells sensitize TCRs through self-MHC-mediated Src family kinase activation." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 178, Issue 4, pp. 2262-71, (2007) (PubMed). Brdicka, Imrich, Angelisová, Brdicková, Horváth, Spicka, Hilgert, Lusková, Dráber, Novák, Engels, Wienands, Simeoni, Osterreicher, Aguado, Malissen, Schraven, Horejsí: "Non-T cell activation linker (NTAL): a transmembrane adaptor protein involved in immunoreceptor signaling." in: **The Journal of experimental medicine**, Vol. 196, Issue 12, pp. 1617-26, (2002) (PubMed).



Flow Cytometry

Image 1. Anti-Phosphotyrosine purified antibody (clone P-Tyr-01) Specificity Verification by Flow Cytometry Anti-Phosphotyrosine purified antibody (concentration in sample 2 µg/mL, GAM FITC, red-filled histogram) binds specifically to surface phosphotyrosines in EGF treated A431 cells (upper panel), but not to the untreated A431 cells (lower panel). Level of non-specific binding was assessed using Mouse IgG1 isotype control purified antibody (MOPC-21) under same conditions (concentration in sample 2 µg/mL, GAM FITC, black-dashed histogram).



Immunofluorescence

Image 2. Phosphotyrosine pattern in HeLa cells as revealed by P-Tyr-01 antibody-Alexa Fluor ® 488 (green). Actin detected by phalloidin-Alexa Fluor 567, DNA stained by DAPI (blue).