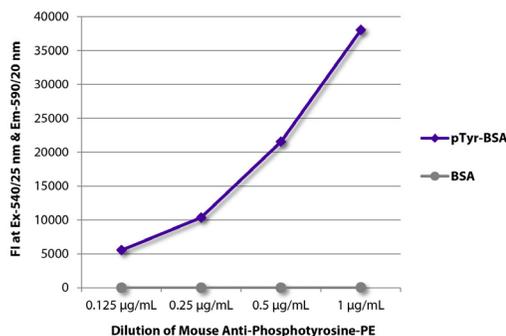




Mouse Anti-Phosphotyrosine

Cat. No.	Format	Size
1400-01	Purified (UNLB)	0.5 mg
1400-02	Fluorescein (FITC)	0.5 mg
1400-04	Alkaline Phosphatase (AP)	1.0 mL
1400-05	Horseradish Peroxidase (HRP)	1.0 mL
1400-08	Biotin (BIOT)	0.5 mg
1400-09	R-phycoerythrin (PE)	0.1 mg



FLISA plate was coated with BSA and BSA conjugated to phosphotyrosine (pTyr-BSA). Phosphotyrosine was detected with serially diluted Mouse Anti-Phosphotyrosine-PE (SB Cat. No. 1400-09).

Overview

Clone	PY20
Isotype	Mouse (BALB/c) IgG _{2b} K
Immunogen	Phosphotyrosine conjugated to carrier proteins
Specificity	Tyrosine-phosphorylated proteins
Alternate Name(s)	pTyr

Description

Protein tyrosine residues are phosphorylated as a result of intracellular protein kinase activation (e.g., via growth factors) during normal growth and development and in oncogenesis. The most abundant population of target proteins for tyrosine phosphorylation is cell surface glycoproteins. Antibodies to phosphotyrosine enable the detection, isolation, and characterization of proteins containing phosphotyrosine. The monoclonal antibody PY20 prevents internalization of activated receptors (e.g., EGFR) when microinjected into cells. The affinity of PY20 for phosphotyrosine is approximately 10^6 to 10^7 M. PY20 binding to phosphorylated tyrosines can be inhibited by free phosphotyrosine and phenylphosphate but not by phosphoserine, phosphothreonine, or free phosphate.

Applications

ELISA – Quality tested ¹⁻⁴
 FLISA – Quality tested
 WB – Reported in literature ^{1,5-7}
 IP – Reported in literature ⁵
 IHC-PS – Reported in literature ⁸
 IHC-WM – Reported in literature ⁹
 ICC – Reported in literature ¹⁰
 FC – Reported in literature ¹¹
 Microarray – Reported in literature ^{12,13}
 Purification – Reported in literature ^{1,14}

Working Dilutions

ELISA	AP conjugate	1:1,000 – 1:2,000
	HRP conjugate	1:1,000 – 1:4,000
	BIOT conjugate	1:5,000 – 1:10,000
FLISA	FITC conjugate	1:200 – 1:400
	PE conjugate	≤ 1 µg/mL

Other Applications Since applications vary, you should determine the optimum working dilution for the product that is appropriate for your specific need.

For Research Use Only. Not for Diagnostic or Therapeutic Use.

Handling and Storage

- The purified (UNLB) antibody is supplied as 0.5 mg of purified immunoglobulin in 1.0 mL of borate buffered saline, pH 8.2. *No preservatives or amine-containing buffer salts added.* Store at 2-8°C.
- The fluorescein (FITC) conjugate is supplied as 0.5 mg in 1.0 mL of PBS/NaN₃. Store at 2-8°C.
- The alkaline phosphatase (AP) conjugate is supplied as 1.0 mL in a stock solution of 50 mM Tris/1 mM MgCl₂/50% glycerol, pH 8.0, containing NaN₃ as preservative. Store at 2-8°C or long-term at -20°C.
- The horseradish peroxidase (HRP) conjugate is supplied as 1.0 mL in a stock solution of 50% glycerol/50% PBS, pH 7.4. No preservative added. Store at 2-8°C or long-term at -20°C.
- The biotin (BIOT) conjugate is supplied as 0.5 mg in 1.0 mL of PBS/NaN₃. Store at 2-8°C.
- The R-phycoerythrin (PE) conjugate is supplied as 0.1 mg in 1.0 mL of PBS/NaN₃ and a stabilizing agent. Store at 2-8°C. **Do not freeze!**
- Protect fluorochrome-conjugated forms from light. Reagents are stable for the period shown on the label if stored as directed.

Warning

Some reagents contain sodium azide. Please refer to product specific SDS.

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