

Rev03
Update: Dec,14,2021

DATASHEET

Phosphotyrosine Antibody (5E10), mAb, Mouse

Cat. No.: A01817

Overview

Specificity	The antibody is specific for proteins containing phosphotyrosine residues. It does not cross-react with phosphoserine, phosphothreonine or nonphosphorylated tyrosine residues.
Host Species	Mouse
Immunogen	Phosphotyrosine containing carrier protein
Conjugate	Unconjugated

Applications

Working concentrations for specific applications should be determined by the investigator. The appropriate concentrations may be affected by secondary antibody affinity, antigen concentration, the sensitivity of the method of detection, temperature, the length of the incubations, and other factors. The suitability of this antibody for applications other than those listed below has not been determined. The following concentration ranges are recommended starting points for this product.

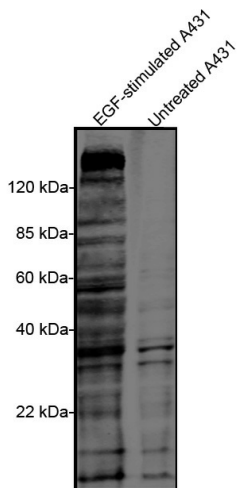
Application	Recommended Usage
Western Blot	1 µg/ml
Other applications	User-optimized

Properties

Form	Lyophilized
Storage Buffer	lyophilized with PBS, pH 7.4, containing 0.02% sodium azide.
Reconstitution	Reconstitute the lyophilized powder with deionized water (or equivalent) to an final concentration of 0.5 mg/mL.
Storage Instructions	The lyophilized product remains stable up to 1 year at -20°C from date of receipt. Upon reconstitution, it can be stored for 2-3 weeks at 2-8°C or for up to 12 months at -20°C or below. Avoid repeated freezing and thawing cycles.
Purification	Protein A affinity column

Isotype	Mouse IgG1, κ
Clonality	Monoclonal
Clone Id	5E10E1

Examples



Western blot analysis of EGF-stimulated A431 cell lysates and untreated A431 cell lysates with Phosphotyrosine Antibody (5E10), mAb, Mouse (GenScript, A01817, 1 μ g/ml).

The signal was developed with IRDye™ 800 Conjugated affinity Purified Goat Anti-Mouse IgG.

Background

Target Background : Phosphotyrosine is a tyrosine residue covalently bound to a phosphate via its hydroxyl group. A tyrosine kinase catalyzes the transfer of a phosphate from ATP to a tyrosine residue on a protein substrate. Tyrosine phosphorylation plays a key role in intracellular signaling and cancer development. Many tyrosine kinases are drug targets for different forms of cancer. Phosphotyrosine antibody specifically binds to phosphotyrosine residues. It is a valuable tool to analyze tyrosine phosphorylation and monitor the activity of tyrosine kinase in high throughput drug discovery. GenScript Phosphotyrosine Antibody (5E10), mAb, Mouse is produced from a hybridoma resulting from the fusion of SP2/0-Ag14 myeloma and B-lymphocytes harvested from mouse immunized with phosphotyrosine conjugated to KLH.

Synonyms : Mouse monoclonal to Phosphotyrosine/pY

For laboratory research use only. Direct human use, including taking orally and injection and clinical use are forbidden.