

# **Human Phospho-Paxillin (Y31) Antibody**

Monoclonal Mouse IgG<sub>2A</sub> Clone # 698239 Catalog Number: MAB61641

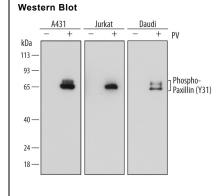
DESCRIPTION			
Species Reactivity	Human		
Specificity	Detects Phospho-Paxillin (Y31) in direct ELISAs and Western blots.		
Source	Monoclonal Mouse IgG <sub>2A</sub> Clone # 698239		
Purification	Protein A or G purified from hybridoma culture supernatant		
Immunogen	Phosphopeptide containing the human Paxillin Y31 site		
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.		

### **APPLICATIONS**

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

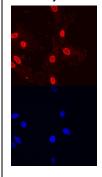
	Recommended Concentration	Sample
Western Blot	0.1 μg/mL	See Below
Immunocytochemistry	8-25 μg/mL	See Below

#### DATA



Detection of Human Phospho-Paxillin (Y31) by Western Blot. Western blot shows lysates of A431 human epithelial carcinoma cell line, Jurkat human acute T cell leukemia cell line, and Daudi human Burkitt's lymphoma cell line untreated (-) or treated (+) with 1 mM Pervanadate (PV) for 30 minutes. PVDF membrane was probed with 0.1 µg/mL of Mouse Anti-Human Phospho-Paxillin (Y31) Antigen Affinity-purified Monoclonal Antibody (Catalog # MAB61641) followed by HRPconjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). Specific bands were detected for Phospho-Paxillin (Y31) at approximately 65 to 68 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

#### Immunocytochemistry



Paxillin in HUVEC Human Cells. Paxillin phosphorylated at Y31 was detected in immersion fixed HUVEC human umbilical vein endothelial cells using Mouse Anti-Human Phospho-Paxillin (Y31) Antigen Affinity-purified Monoclonal Antibody (Catalog # MAB61641) at 10 μg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Mouse IgG Secondary Antibody (red, upper panel; Catalog # NL007) and counterstained with DAPI (blue, lower panel). Specific staining was localized to nuclei and focal adhesions. View our protocol for Fluorescent ICC Staining of Cells on Coverslips.

## PREPARATION AND STORAGE

Reconstitution Sterile PBS to a final concentration of 0.5 mg/mL.

**Shipping** The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

\*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

#### BACKGROUND

Paxillin is a 65 kDa cytoskeletal adaptor protein and member of the Paxillin family. Human Paxillin is 591 amino acids (aa) in length and contains four LIM zinc-binding domains. Alternative splicing produces three isoforms. Human Paxillin shares 94% and 85% aa identity with mouse and rat Paxillin, respectively. Paxillin is found at the interface between actin filaments and the plasma membrane, and it localizes to focal adhesions, where it provides a platform for the integration and coordination of adhesion- and growth factor-related signals. Paxillin phosphorylation at tyrosines 31 and 118 is required for integrin-mediated cytoskeletal reorganization, and may play a role in the disassembly of focal adhesions and stress fibers during cellular transformation.

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