

Monoclonal Mouse IgG_{2A} Clone # 327554 Catalog Number: MAB3807

DESCRIPTION	
Species Reactivity	Human
Specificity	Detects human Src in direct ELISAs.
Source	Monoclonal Mouse IgG _{2A} Clone # 327554
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human Src Met1-Ala79 Accession # P12931
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	2 μg/mL	A549 human lung carcinoma cell line, HepG2 human hepatocellular carcinoma cell line, C2C12 mouse myoblast cell line, and mIMCD-3 mouse epithelial cell line	
Immunohistochemistry	8-25 µg/mL	See Below	

DATA



Detection of Human Src by Western Blot. Western blot shows lysates of A549 human lung carcinoma cell line, HepG2 human hepatocellular carcinoma cell line. U937 human histiocytic lymphoma cell line (negative control), and HL-60 human acute promyelocytic leukemia cell line (negative control). PVDF membrane was probed with 2 µg/mL of Mouse Anti-Human Src Monoclonal Antibody (Catalog # MAB3807) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF018). A specific band was detected for Src at approximately 60 kDa (as indicated). GAPDH (Catalog # MAB5718) is shown as a loading control. This experiment was conducted under reducing conditions and using Western Blot Buffer Group 1.

Immunohistochemistry



Src in Human Lung Cancer Tissue. Src was detected in immersion fixed parafin-embedded sections of human lung cancer tissue using Mouse Anti-Human Src Monoclonal Antibody (Catalog # MAB3807) at 25 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Mouse HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # Catalog # CTS002) and counterstained with hematoxylin (blue). Lower panel shows a lack of labeling if primary antibodies are omitted and tissue is stained only with secondary antibody followed by incubation with detection reagents. View our protocol for Chromogenic IHC Staining of Paraffin-embedded Tissue Sections.

Western Blot



Detection of Human and Mouse Src by Western Blot. Western blot shows lysates of HepG2 human hepatocellular carcinoma cell line, C2C12 mouse myoblast cell line, and mIMCD-3 mouse epithelial cell line. PVDF membrane was probed with 2 µg/mL of Mouse Anti-Human Src Monoclonal Antibody (Catalog # MAB3807) followed by HRPconjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF018). A specific band was detected for Src at approximately 60 kDa (as indicated). This experiment was conducted under reducing conditions and using Western Blot Buffer Group 1.

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PREPARATION AND STORAGE		
Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.	
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	
Stability & Storage	 Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 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

The Src family of proteins are intracellular tyrosine kinases involved in cell proliferation, differentiation, motility, and survival. Src family activity is regulated by tyrosine phosphorylation at two sites with opposing effects. Autophosphorylation in the activation loop of the kinase domain (Y419 of human Src) up-regulates the enzyme, while phosphorylation in the C-terminal tail (Y530 of human Src) down-regulates activity.

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