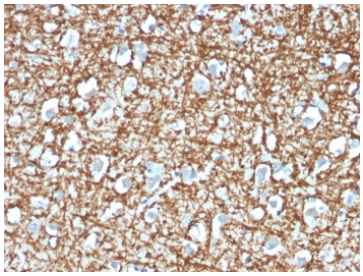
ADP-Ribosylation Factor 1 Antibody ARF1/2117 / ARF1 Monoclonal Antibody [clone ARF1/2117] (V7901)

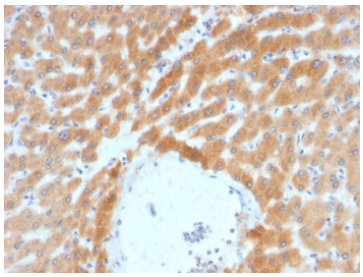
Catalog No.	Formulation	Size
V7901-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V7901-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V7901SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

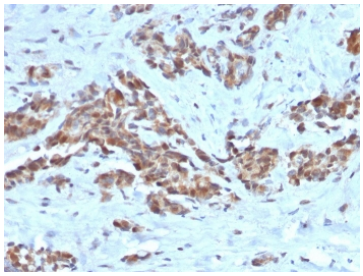
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat, Hamster, Rabbit, Guinea pig
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2a, kappa
Clone Name	ARF1/2117
Purity	Protein G affinity chromatography
UniProt	P84077
Localization	Cytoplasmic (Golgi)
Applications	Immunohistochemistry (FFPE): 1-2ug/ml Western blot: 2-4ug/ml
Limitations	This ADP-Ribosylation Factor 1 Antibody ARF1/2117 / ARF1 Monoclonal Antibody is available for research use only.



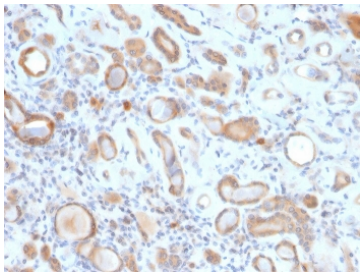
ADP-Ribosylation Factor 1 Antibody ARF1/2117 in Human Brain IHC. Immunohistochemistry staining of FFPE human brain tissue with ADP-Ribosylation Factor 1 Antibody clone ARF1/2117. HIER was performed by boiling tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min followed by cooling before testing. Strong brown staining is broadly distributed through the neuropil and cellular processes, with nuclei remaining comparatively unstained. The widespread cytoplasmic pattern supports tissue detection of ARF1 with the ARF1 Monoclonal Antibody.



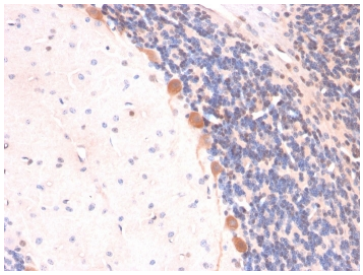
ADP-Ribosylation Factor 1 Antibody ARF1/2117 in Human Liver IHC. Immunohistochemistry staining of FFPE human liver tissue with ADP-Ribosylation Factor 1 Antibody clone ARF1/2117. HIER was performed by boiling tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min followed by cooling before testing. Brown cytoplasmic staining is present throughout hepatocytes, with nuclei remaining largely unstained and prominent labeling visible around the vascular structure. This cellular distribution supports detection of ARF1 with the ARF1 Monoclonal Antibody.



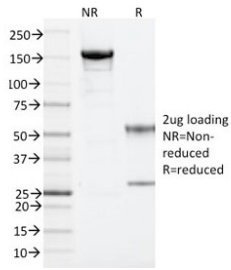
ADP-Ribosylation Factor 1 Antibody ARF1/2117 in Human Breast IHC. Immunohistochemistry staining of FFPE human breast tissue with ADP-Ribosylation Factor 1 Antibody clone ARF1/2117. HIER was performed by boiling tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min followed by cooling before testing. Strong brown staining is concentrated in glandular epithelial structures, while much of the surrounding stromal tissue shows substantially weaker labeling. The selective epithelial staining demonstrates tissue detection with the ARF1 Monoclonal Antibody.



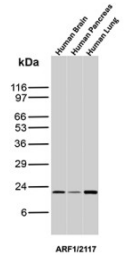
ADP-Ribosylation Factor 1 Antibody ARF1/2117 in Human Kidney IHC. Immunohistochemistry staining of FFPE human kidney tissue with ADP-Ribosylation Factor 1 Antibody clone ARF1/2117. HIER was performed by boiling tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min followed by cooling before testing. Brown cytoplasmic staining is prominent in renal tubular epithelial cells, producing clear tubular profiles, while nuclei remain comparatively unstained. This renal epithelial staining supports tissue detection of ARF1 with the ARF1 Monoclonal Antibody.



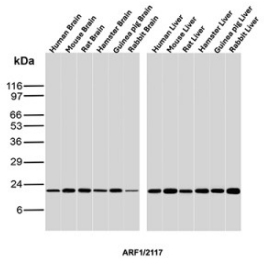
ADP-Ribosylation Factor 1 Antibody ARF1/2117 in Rat Brain IHC. Immunohistochemistry staining of FFPE rat brain tissue with ADP-Ribosylation Factor 1 Antibody clone ARF1/2117. HIER was performed by boiling tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min followed by cooling before testing. Brown staining is prominent in a defined neuronal layer and associated cellular processes, contrasting with the more weakly stained surrounding tissue. This cross-species tissue staining supports detection of ARF1 with the ARF1 Monoclonal Antibody.



Purified ADP-Ribosylation Factor 1 Antibody ARF1/2117 SDS-PAGE. SDS-PAGE analysis of 2 ug purified, BSA-free ADP-Ribosylation Factor 1 Antibody clone ARF1/2117 under non-reducing (NR) and reducing (R) conditions. The non-reduced preparation shows a predominant intact immunoglobulin band near 150 kDa, while reduction produces the expected antibody heavy and light chain components near 50 kDa and 25 kDa. The electrophoretic profile supports the integrity and purity of the ARF1 Monoclonal Antibody preparation.



ADP-Ribosylation Factor 1 Antibody ARF1/2117 in Human Tissues WB. Western blot analysis of human tissue lysates with ADP-Ribosylation Factor 1 Antibody clone ARF1/2117. Lane 1: brain; lane 2: pancreas; lane 3: lung. A discrete band is detected at approximately 20-21 kDa in all three tissues, consistent with the expected molecular weight of ARF1. Brain and lung show stronger signal than pancreas, while little additional reactivity is visible across the blot. The clean target-sized bands demonstrate endogenous ARF1 detection in multiple human tissues and reinforce western blot performance of the ARF1 Monoclonal Antibody.



ADP-Ribosylation Factor 1 Antibody ARF1/2117 Across Six Mammalian Species WB. Western blot analysis of brain and liver tissue lysates with ADP-Ribosylation Factor 1 Antibody clone ARF1/2117. Brain lanes: human, mouse, rat, hamster, guinea pig and rabbit. Liver lanes: human, mouse, rat, hamster, guinea pig and rabbit. A strong, discrete band is detected at approximately 20-21 kDa across all twelve samples, consistent with the expected molecular weight of ARF1. The remarkably uniform target-sized signal and minimal additional reactivity demonstrate broad cross-species recognition and strong western blot performance of the ARF1 Monoclonal Antibody.

Description

ADP-Ribosylation Factor 1 Antibody ARF1/2117 / ARF1 Monoclonal Antibody recognizes ARF1, a small GTP-binding protein belonging to the ADP-ribosylation factor family within the Ras superfamily. ARF1 functions as a molecular switch by cycling between GDP-bound inactive and GTP-bound active states. This regulated cycle allows ARF1 to coordinate membrane trafficking, vesicle formation and maintenance of intracellular organelle structure, particularly within the Golgi apparatus and secretory pathway.

Activation of ARF1 is controlled by guanine nucleotide exchange factors, while GTPase-activating proteins promote conversion back to the GDP-bound state. Active ARF1 associates with cellular membranes and recruits coat proteins and other effectors required for cargo transport. A particularly well-characterized function is recruitment of COPI coat components to Golgi membranes, facilitating retrograde trafficking within the Golgi and between the Golgi apparatus and endoplasmic reticulum.

ADP-Ribosylation Factor 1 also contributes to membrane remodeling through regulation of lipid-modifying enzymes and membrane composition. These activities connect ARF1 with cargo sorting, Golgi organization and the formation of membrane environments required for intracellular transport. Through interactions with multiple effectors, ARF1 can coordinate changes in membrane structure with movement of proteins and lipids between cellular compartments.

ARF1-dependent processes also intersect with pathways involved in cell proliferation, metabolism and cytoskeletal organization. Altered regulation of ARF1 has therefore been investigated in cancer and other disease models involving changes in intracellular trafficking or cellular signaling. NSJ Bioreagents offers clone ARF1/2117 as a monoclonal reagent for research into ARF1 expression, Golgi biology and membrane trafficking.

An ADP-Ribosylation Factor 1 Antibody provides a reagent for investigating vesicular transport and Golgi-associated processes, while an ARF1 Monoclonal Antibody provides gene-based terminology for studies of this small regulatory GTPase.

For an antibody with an established history of published use targeting the same protein, see our ARF1 Antibody 1A9/5 / ADP-Ribosylation Factor 1 Antibody.

Application Notes

Optimal dilution of the ADP-Ribosylation Factor 1 Antibody ARF1/2117 / ARF1 Monoclonal Antibody should be determined by the researcher.

Immunogen

A recombinant full-length human ARF1 protein was used as the immunogen for this ADP-Ribosylation Factor 1 Antibody ARF1/2117.

Storage

Store the ADP-Ribosylation Factor 1 Antibody ARF1/2117 at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

Alternate Names

ARF1 antibody, ARF-1 antibody, ADP Ribosylation Factor 1 antibody

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