

Datasheet for ABIN968175

## anti-ARF3 antibody (AA 1-181)

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### Overview

Quantity:	50 µg
Target:	ARF3
Binding Specificity:	AA 1-181
Reactivity:	Human, Rat, Mouse, Chicken, Dog, Frog
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This ARF3 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Immunoprecipitation (IP)

### Product Details

Immunogen:	Human ARF3 aa. 1-181
Clone:	41-ARF3
Isotype:	IgG1
Cross-Reactivity:	Rat (Rattus), Mouse (Murine), Chicken, Dog (Canine), Frog
Characteristics:	<ol style="list-style-type: none"> <li>1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.</li> <li>2. Please refer to us for technical protocols.</li> <li>3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.</li> <li>4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.</li> </ol>

## Product Details

Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.
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## Target Details

Target:	ARF3
Alternative Name:	ARF3 ( <a href="#">ARF3 Products</a> )
Background:	<p>The ADP-ribosylation factors (ARFs) belong to the multigene family of small GTPases capable of activating cholera toxin. ARFs fall into three different classes: Class I is composed of ARF-1, ARF-2, and ARF-3, Class II consists of ARF-4 and ARF-5, and Class III includes ARF6. Unique to ARFs is their lack of intrinsic GTP hydrolysis activity, a high affinity for GDP in a Mg<sup>2+</sup>-dependent manner, and phospholipid requirement for nucleotide exchange. ARFs are involved in intravesicular acidification of microsomal vesicles, endosome fusion, nuclear membrane assembly, and formation of clathrin-coated vesicles. In addition, GTP and ARF-3 are required for the activation of phospholipase D (PLD), an early cellular response triggered by the binding of receptors on the cell surface in response to numerous extracellular signals. Although predominantly cytosolic, ARF-3 can be translocated to cellular membranes upon cellular stimulation. The transition between the GDP-bound ARF-3 to the GTP-ARF-3 is facilitated by a high molecular weight guanine nucleotide-exchange factor sensitive to brefeldin. ARF-3 has been reported to be the most abundant in brain, kidney, and liver.</p> <p>Synonyms: ADP Ribosylation Factor-3</p>
Molecular Weight:	20 kDa
Pathways:	<a href="#">Inositol Metabolic Process</a> , <a href="#">Cellular Glucan Metabolic Process</a>

## Application Details

Comment:	Related Products: ABIN968545, ABIN967389
Restrictions:	For Research Use only

## Handling

Format:	Liquid
Concentration:	250 µg/mL
Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09 % sodium azide.
Preservative:	Sodium azide

## Handling

Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
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Storage:	-20 °C
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Storage Comment:	Store undiluted at -20° C.
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## Publications

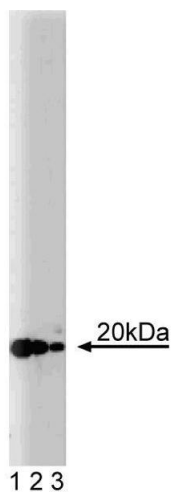
Product cited in: Lee, Stevens, Hsu, Tsai, Lee, Moss, Vaughan: "Expression in human endothelial cells of ADP-ribosylation factors, 20-kDa guanine nucleotide-binding proteins involved in the initiation of vesicular transport." in: **Journal of molecular and cellular cardiology**, Vol. 28, Issue 9, pp. 1911-20, (1997) ([PubMed](#)).

Morinaga, Tsai, Moss, Vaughan: "Isolation of a brefeldin A-inhibited guanine nucleotide-exchange protein for ADP ribosylation factor (ARF) 1 and ARF3 that contains a Sec7-like domain." in: **Proceedings of the National Academy of Sciences of the United States of America**, Vol. 93, Issue 23, pp. 12856-60, (1996) ([PubMed](#)).

Cockcroft, Thomas, Fensome, Geny, Cunningham, Gout, Hiles, Totty, Truong, Hsuan: "Phospholipase D: a downstream effector of ARF in granulocytes." in: **Science (New York, N.Y.)**, Vol. 263, Issue 5146, pp. 523-6, (1994) ([PubMed](#)).

Moss, Vaughan: "ADP-ribosylation factors, 20,000 M(r) guanine nucleotide-binding protein activators of cholera toxin and components of intracellular vesicular transport systems." in: **Cellular signalling**, Vol. 5, Issue 4, pp. 367-79, (1993) ([PubMed](#)).

Kahn, Radding: "Separation of the presynaptic and synaptic phases of homologous pairing promoted by recA protein." in: **The Journal of biological chemistry**, Vol. 259, Issue 12, pp. 7495-503, (1984) ([PubMed](#)).



### Western Blotting

**Image 1.** Western blot analysis of ARF-3 on a rat cerebrum lysate. Lane 1: 1:500, lane 2: 1:1000, lane 3: 1:2000 dilution of the mouse anti- ARF-3 antibody.

### Image 2.

