

ARL15 Antibody

ARL15: ADP-ribosylation factor-like 15, ADP-ribosylation factor-related protein 2, ARFRP2

CATALOG No.: 5263

Background:

ADP-ribosylation factors (ARFs) are highly conserved guanine nucleotide binding proteins that enhance the ADP-ribosyltransferase activity of cholera toxin. ARFs are important in eukaryotic vesicular trafficking pathways and they play an essential role in the activation of phospholipase D (PC-PLD) (1,2). ARL15 (ADP-ribosylation factor-like 15), is a member of the ARF family of the Ras superfamily of small GTPases that are known to be involved in multiple regulatory pathways altered in human carcinogenesis (3). Other members of this protein family include ARL11, thought to be a tumor suppressor and may play a role in the regulation of apoptosis (4), ARL2 which plays an important role in microtubule dynamics and cell cycle progression, and ARL4, which may play a role in neurogenesis during embryonic development (3). The gene encoding ARL15 maps to chromosome 5p15 in humans. At least three isoforms of ARL15 are known to exist.

SOURCE:

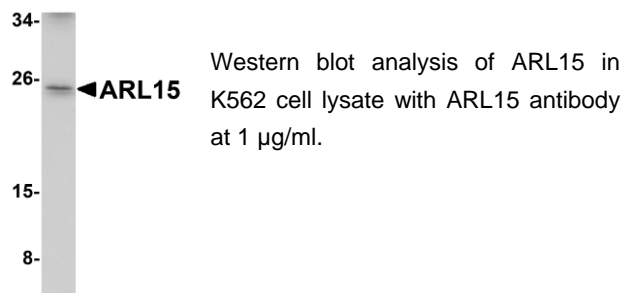
Rabbit polyclonal ARL15 antibody was raised against a 17 amino acid peptide near the center of human ARL15 (GenBank accession no. NP_061960).

APPLICATION:

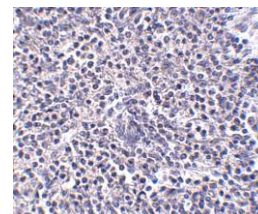
ARL15 antibody can be used for detection of Arl15 by Western blot at 1 - 2 µg/ml. (Optimal dilution should be determined by user.) K562 cell lysate can be used as positive control. ARL15 antibody is human, mouse and rat reactive. For research use only.

STORAGE:

ARL15 antibody is supplied as immunoaffinity purified IgG in PBS containing 0.02% sodium azide. Store at 4°C, stable for one year.



Immunohistochemistry of ARL15 in human spleen tissue with ARL15 antibody at 5 µg/ml.



RELATED PRODUCTS:

Blocking Peptide, Catalog No. **5263P**.
K562 Cell Lysate, Catalog No. **1204**.

REFERENCES:

1. Pasqualato S, Renault L, and Cherfils J. ARF, ARL, ARP and SAR proteins: a family of GTP-binding proteins with a structural device for 'front-back' communication. *EMBO Rep.* 2002; 3: 1035-41.
2. Kahn RA, Volpicelli-Daley L, Bowzard B, et al. ARF family GTPases: roles in membrane traffic and microtubule dynamics. *Biochem. Soc. Trans.* 2005; 33: 1269-72.
3. Kahn RA, Cherfils J, Elias M, et al. Nomenclature for the human Arf family of GTP binding proteins: ARF, ARL, and SAR proteins. *J. Cell Biol.* 2006; 172: 645-50.
4. Calin GA, Trapasso F, Shimizu M, et al. Familial cancer associated with a polymorphism in ARLTS1. *N. Engl. J. Med.* 2005; 352:1667-76. (09-01D)