

ARL2BP Protein, Human, Recombinant (His)

General Information

Synonyms:	RP66;ADP-ribosylation factor-like 2 binding protein;BART1;BART
Protein Construction:	A DNA sequence encoding the mature form of human ARL2BP (Q9Y2Y0-1) (Met1-His163) was expressed with a polyhistidine tag at the N-terminus. Predicted N terminal: His
Species:	Human
Expression Host:	E. coli
Accession:	Q9Y2Y0-1
Molecular Weight:	20.7 kDa (predicted); 21 kDa (reducing conditions)

QC Testing

Biological Activity:	Activity testing is in progress. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 85 % as determined by SDS-PAGE
Endotoxin:	Please contact us for more information.
Formulation:	Lyophilized from a solution filtered through a 0.22 µm filter, containing PBS, pH 7.4. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:
A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:
It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

ADP-ribosylation factor (ARF)-like proteins (ARLs) comprise a functionally distinct group of the ARF family of RAS-related GTPases. ARL2BP binds to ARL2.GTP with high affinity but does not interact with ARL2.GDP, activated ARF, or RHO proteins. The lack of detectable membrane association of ARL2BP or ARL2 upon activation of ARL2 is suggestive of actions distinct from those of the ARFs. ARL2BP is considered to be the first ARL2-specific effector identified, due to its interaction with ARL2.GTP but lack of ARL2 GTPase-activating protein activity. ARL2BP,

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together with ARL2, plays a role in the nuclear translocation, retention and transcriptional activity of STAT3.
ARL2BP may play a role as an effector of ARL2.

Reference

Qiu J. et al., 2011, PLoS Pathog. 7 (8): e1002193.

Taniuchi K. et al., 2012, PLoS One. 7 (4): e35674.

Taniuchi K. et al., 2012, Neoplasia. 14 (5): 440-50.

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