

Datasheet for 600-401-BZ0**IQSEC2 Antibody****Overview**

Description:	Anti-IQSEC2 (RABBIT) Antibody - 600-401-BZ0
Item No.:	600-401-BZ0
Size:	100 µg
Applications:	ELISA, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	ADP ribosylation factors (Arfs) are small GTP-binding proteins known for their role in vesicular transport, where they nucleate the assembly of coat protein complexes at sites of carrier vesicle formation. Similar to the related protein IQSEC1, IQSEC2 is a guanine nucleotide exchange protein for ARF1 and ARF6 that belongs to the BRAG family and contains one IQ domain, one PH domain and one SEC7 domain (1,2). IQSEC2 is a major component of the postsynaptic density (PSD) and colocalizes with PSD-95. It has been suggested to modulate the functions of the ARF proteins (1). Mutations in this gene have been implicated in nonsyndromic X-linked mental retardation (3).
Synonyms:	IQ motif and Sec7 domain 2, Brefeldin-resistant Arf-GEF 1 protein, BRAG1, MRX1
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	IQSEC2
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-IQSEC2 antibody was prepared from whole rabbit serum produced by repeated immunizations with an 18 amino acid peptide near the C-terminus of human IQSEC2.

Purity/Specificity: Anti-IQSEC2 antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. IQSEC2 antibody is human, mouse and rat reactive. At least two isoforms of IQSEC2 are known to exist; this antibody will only detect the larger isoform. IQSEC2 antibody is predicted to not cross-react with IQSEC1.

Relevant Links:

- [UniProtKB - Q5JU85](#)
- [GeneID - 23096](#)
- [NCBI - NP_001104595](#)

Application Details

Tested Applications: ELISA, IHC, WB

Application Note: Anti-IQSEC2 Antibody has been tested for use in ELISA, immunohistochemistry, and Western Blotting. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 162 kDa in Western Blots of specific cell lysates and tissues.

Assay Dilutions: All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

ELISA: 1:10,000 - 1:20,000

IHC: 5 µg/mL

WB: 1-2 µg/mL

Formulation

Physical State: Liquid (sterile filtered)

Concentration: 1 mg/mL by UV absorbance at 280 nm

Buffer: 0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2

Preservative: 0.02% (w/v) Sodium Azide

Stabilizer: None

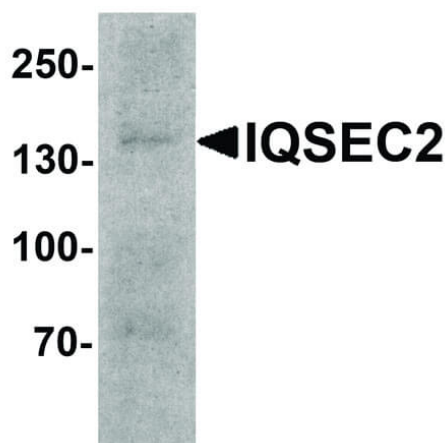
Shipping & Handling

Shipping Condition: Dry Ice

Storage Condition: Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

Expiration:

Expiration date is one (1) year from date of receipt.

Images**Western Blot**

Western Blot of Rabbit anti-IQSEC2 antibody. Lane A: SK-N-SH cell lysate. Primary antibody: IQSEC2 antibody at 1 µg/mL overnight at 4°C. Secondary antibody: Goat anti-Rabbit HRP secondary antibody. Block: 5% BLOTTO. Predicted/Observed size: 104/133/141/164 kDa, 140 kDa for IQSEC2.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.