

**BARON Antibody (Center)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP1831c**

**Specification**

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**BARON Antibody (Center) - Product Information**

Application	WB, IHC-P, FC,E
Primary Accession	<a href="#">Q92622</a>
Other Accession	<a href="#">Q80U62</a>
Reactivity	Human
Predicted	Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	108622
Antigen Region	656-684

**BARON Antibody (Center) - Additional Information**

**Gene ID** 9711

**Other Names**

Run domain Beclin-1 interacting and cysteine-rich containing protein, Rubicon, Beclin-1 associated RUN domain containing protein, Baron, KIAA0226

**Target/Specificity**

This BARON antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 656-684 amino acids from the Central region of human BARON.

**Dilution**

WB~~1:1000  
IHC-P~~1:50~100  
FC~~1:10~50

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

BARON Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

**BARON Antibody (Center) - Protein Information**

**Name** RUBCN ([HGNC:28991](#))

**Synonyms** KIAA0226

**Function** Inhibits PIK3C3 activity; under basal conditions negatively regulates PI3K complex II (PI3KC3-C2) function in autophagy. Negatively regulates endosome maturation and degradative endocytic trafficking and impairs autophagosome maturation process. Can sequester UVRAG from association with a class C Vps complex (possibly the HOPS complex) and negatively regulates Rab7 activation (PubMed:[20974968](#), PubMed:[21062745](#)).

**Cellular Location**

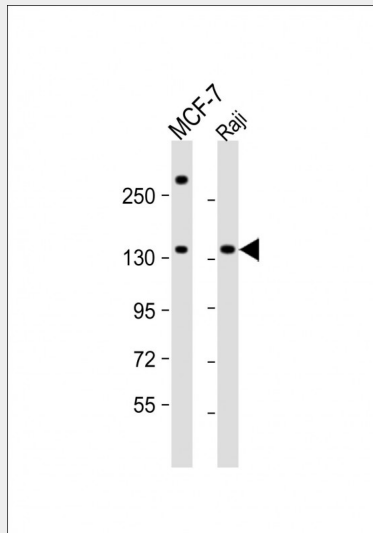
Late endosome. Lysosome. Early endosome Note=Predominantly located in late endosomes/lysosomes, only partially detected in early endosome and not at all in the Golgi apparatus

**BARON Antibody (Center) - Protocols**

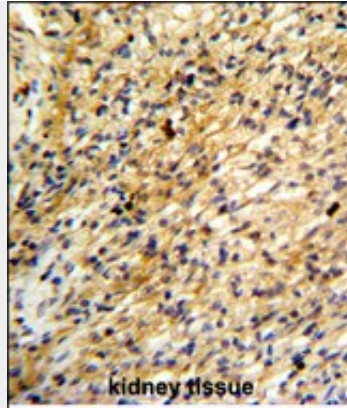
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

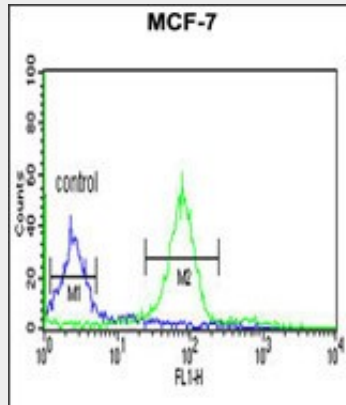
**BARON Antibody (Center) - Images**



All lanes : Anti-BARON Antibody (Center) at 1:1000 dilution Lane 1: MCF-7 whole cell lysate Lane 2: Raji whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 109 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



Formalin-fixed and paraffin-embedded human kidney reacted with BARON Antibody (Center), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



BARON Antibody (Center) (Cat. #AP1831c) flow cytometric analysis of MCF-7 cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

#### **BARON Antibody (Center) - References**

- Matsunaga, K., et al. Nat. Cell Biol. 11(4):385-396(2009)
- Muzny, D.M., et al. Nature 440(7088):1194-1198(2006)
- Venter, J.C., et al. Science 291(5507):1304-1351(2001)