

# Anti-RAB30 Antibody

Catalog # AP51838

## Product Information

|                   |                           |
|-------------------|---------------------------|
| Application       | WB, IHC                   |
| Primary Accession | <a href="#">Q15771</a>    |
| Reactivity        | Human, Mouse, Rat, Bovine |
| Host              | Rabbit                    |
| Clonality         | Polyclonal                |
| Calculated MW     | 23058                     |

## Additional Information

|                    |                                                                                                                                      |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| Gene ID            | 27314                                                                                                                                |
| Other Names        | Ras-related protein Rab-30                                                                                                           |
| Target/Specificity | KLH-conjugated synthetic peptide encompassing a sequence within the center region of human RAB30. The exact sequence is proprietary. |
| Dilution           | WB~~WB (1/500 - 1/1000) IHC~~1:100~500                                                                                               |
| Format             | Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.                            |
| Storage            | Store at -20 °C.Stable for 12 months from date of receipt                                                                            |

## Protein Information

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name              | RAB30 ( <a href="#">HGNC:9770</a> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Function          | <p>The small GTPases Rab are key regulators of intracellular membrane trafficking, from the formation of transport vesicles to their fusion with membranes. Rabs cycle between an inactive GDP-bound form and an active GTP-bound form that is able to recruit to membranes different sets of downstream effectors directly responsible for vesicle formation, movement, tethering and fusion (PubMed:<a href="#">22188167</a>). RAB30 is required for maintaining the structural integrity of the Golgi apparatus, possibly by mediating interactions with cytoplasmic scaffolding proteins (PubMed:<a href="#">22188167</a>). Facilitates lipid homeostasis during fasting by regulating hepatic protein and lipid trafficking in a PPAR-alpha-dependent manner (By similarity). Promotes autophagosome biogenesis during bacterial infection such as group A Streptococcus infection (PubMed:<a href="#">26771875</a>).</p> |
| Cellular Location | Membrane; Lipid-anchor; Cytoplasmic side. Golgi apparatus, trans- Golgi network membrane. Golgi apparatus, cis-Golgi network membrane. Golgi apparatus membrane. Cytoplasm. Cytoplasmic vesicle, autophagosome                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

membrane. Autolysosome membrane. Note=Localized to dynamic membranes fusing to and exiting from the Golgi apparatus (By similarity) Localized to group A Streptococcus (GAS)-containing autophagosome to autolysosome in GAS-infected epithelial cells (PubMed:26771875). Also colocalized with a starvation-induced autophagosome although not required for autophagosome formation during starvation (PubMed:26771875). {ECO:0000250|UniProtKB:Q923S9, ECO:0000269|PubMed:26771875}

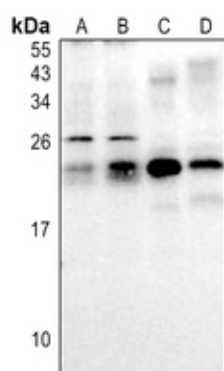
## References

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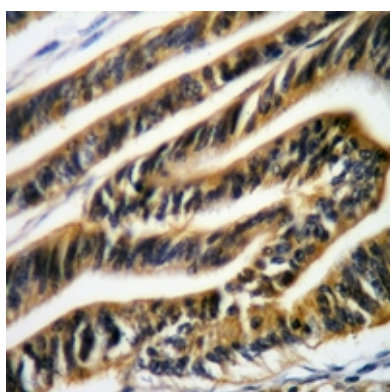
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Puhl H.L. III,et al.Submitted (APR-2002) to the EMBL/GenBank/DDBJ databases.  
Halleck A.,et al.Submitted (JUN-2004) to the EMBL/GenBank/DDBJ databases.  
Daub H.,et al.Mol. Cell 31:438-448(2008).  
Olsen J.V.,et al.Sci. Signal. 3:RA3-RA3(2010).

## Images

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Western blot analysis of RAB30 expression in LO2 (A), EC9706 (B), mouse brain (C), rat kidney (D) whole cell lysates. (Predicted band size: 23 kD; Observed band size: 26 kD)



Immunohistochemical analysis of RAB30 staining in human colorectal cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

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