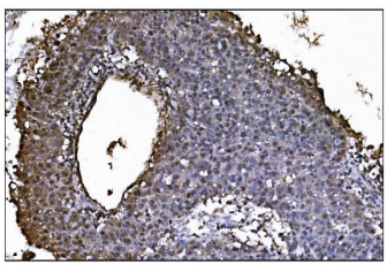
# COPS5 Antibody / JAB1 [clone 4G9] (RQ6537)

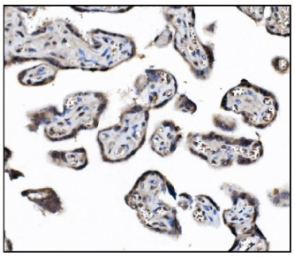
| Catalog No. | Formulation | Size |
|---|---|---|
| RQ6537 | 0.5mg/ml if reconstituted with 0.2ml sterile DI water | 100 ug |

**Bulk quote request**

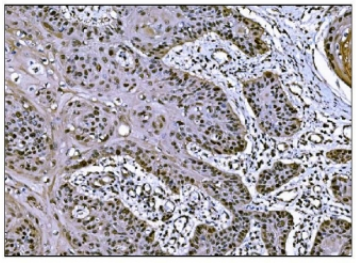
| | |
|---|---|
| **Availability** | 1-3 business days |
| **Species Reactivity** | Human, Mouse, Rat |
| **Format** | Antigen affinity purified |
| **Host** | Mouse |
| **Clonality** | Monoclonal (mouse origin) |
| **Isotype** | Mouse IgG2b |
| **Clone Name** | 4G9 |
| **Purity** | Affinity purified |
| **Buffer** | Lyophilized from 1X PBS with 2% Trehalose |
| **UniProt** | Q92905 |
| **Localization** | Nuclear and cytoplasmic |
| **Applications** | Western Blot : 1-2ug/ml<br>Immunohistochemistry (FFPE) : 2-5ug/ml<br>Immunofluorescence : 5ug/ml<br>Flow Cytometry : 1-3ug/million cells |
| **Limitations** | This COPS5 antibody is available for research use only. |



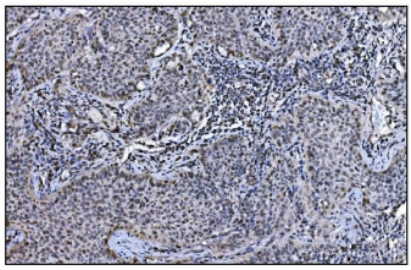
IHC staining of FFPE human liver cancer tissue with COPS5 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



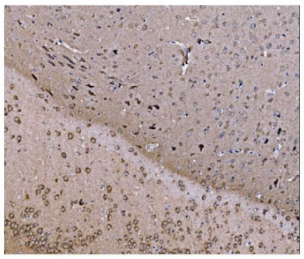
IHC staining of FFPE human placental tissue with COPS5 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



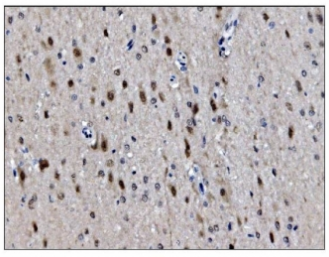
IHC staining of FFPE human esophageal squamous carcinoma tissue with COPS5 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



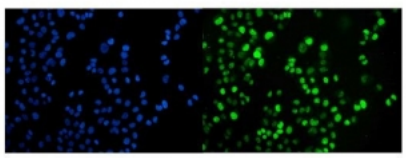
IHC staining of FFPE human lung cancer tissue with COPS5 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



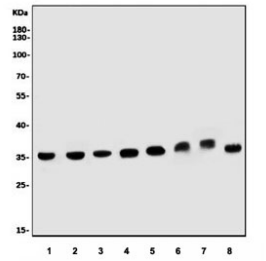
IHC staining of FFPE mouse brain tissue with COPS5 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



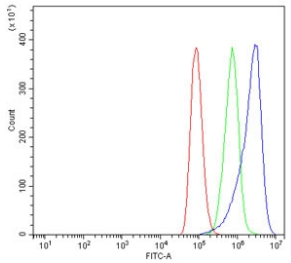
IHC staining of FFPE rat brain tissue with COPS5 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Immunofluorescent staining of FFPE human T-47D cells with COPS5 antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.




Western blot testing of 1) human Raji, 2) human K562, 3) human PC-3, 4) human HeLa, 5) rat brain, 6) rat RH35, 7) mouse brain and 8) mouse SP2/0 cell lysate with COPS5 antibody. Predicted molecular weight ~38 kDa.




Flow cytometry testing of human A549 cells with COPS5 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= COPS5 antibody.

## Description

COP9 constitutive photomorphogenic homolog subunit 5 (Arabidopsis), also known as COPS5 or JAB1, is a gene conserved from humans to Saccharomyces cerevisiae. It is a member of the MOV34 family. COPS5 is mapped to 8q13.1. The protein encoded by this gene is one of the eight subunits of COP9 signalosome, a highly conserved protein complex that functions as an important regulator in multiple signaling pathways. COPS5 can interact with the cytoplasmic domain of the beta-2 subunit of the alpha-L/beta-2 integrin LFA1, and it is the only protein demonstrated to interact with MIF. COPS5, VHL, and TRC8 proteins appear to be linked both physically and functionally, and all 3 may participate in the development of kidney cancer. In addition to that, COPS5 is an essential cofactor for the apoptotic function of E2F1.

## Application Notes

Optimal dilution of the COPS5 antibody should be determined by the researcher.

## Immunogen

An E. coli-derived human protein (amino acids M8-S334) was used as the immunogen for the COPS5 antibody.

## Storage

After reconstitution, the COPS5 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

Ordering: Phone: 858.663.9055 | Fax: 1.267.821.0800 | Email: info@nsjbio.com
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