

## VPS41 Polyclonal Antibody

Catalog number: 13869-1-AP

Size: 47 µg/150 µl

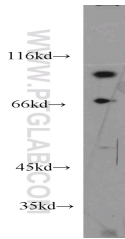
Source: Rabbit

Isotype: IgG

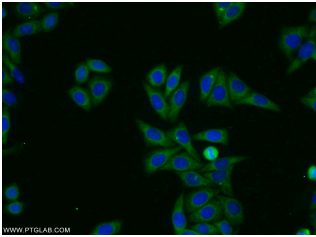
Synonyms:

VPS41; HVPS41, hVps41p,

HVSP41, S53, VPS41



HepG2 cells were subjected to SDS PAGE followed by western blot with 13869-1-AP(VPS41 antibody) at dilution of 1:400



Immunofluorescent analysis of HepG2 cells using 13869-1-AP( VPS41 Antibody) at dilution of 1:25 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)

### Background

Vesicle mediated protein sorting plays an important role in segregation of intracellular molecules into distinct organelles. VPS41 (vacuolar protein sorting 41) is the human ortholog of yeast Vps41 protein. Yeast Vps41 is a subunit of AP3 (heterotetrameric adaptor protein complex 3) and HOPS (homotypic fusion and protein transport) complexes and is involved in trafficking of proteins from the late Golgi to the vacuole. In mammalian cells, Vps41 was found to be a member of HOPS complex, mediating the trafficking of proteins to lysosomes (PMID: 23173123). It has been reported that human VPS41 has a HOPS-independent function in the LAMP carrier pathway and also participates in lysosomal maturation, probably as part of the HOPS complex (PMID: 23322049).

### Applications

|                         |                                    |
|-------------------------|------------------------------------|
| Tested applications:    | ELISA, WB, IF                      |
| Cited applications:     | WB                                 |
| Species specificity:    | Human; other species not tested.   |
| Cited species:          | Human                              |
| Calculated VPS41 MW:    | 854aa,98 kDa                       |
| Observed VPS41 MW:      | 94kd                               |
| Positive WB detected in | HepG2 cells, human brain tissue    |
| Positive IF detected in | HepG2 cells                        |
| Recommended dilution:   | WB: 1:200-1:1000<br>IF: 1:10-1:100 |

Application key: WB = Western blotting, IHC = Immunohistochemistry, IF = Immunofluorescence, IP = Immunoprecipitation

### Immunogen information

|                           |   |
|---------------------------|---|
| Immunogen:                | Ag4760  |
| GenBank accession number: | BC044851  |
| Gene ID (NCBI):           | 27072   |
| Full name:                | Vacuolar protein sorting 41 homolog (S. cerevisiae) |

### Product information

|                      |  |
|----------------------|--|
| Purification method: | Antigen affinity purification  |
| Storage:             | PBS with 0.02% sodium azide and 50% glycerol pH 7.3. Store at -20°C. |