

## Rabbit PHCA Polyclonal Antibody | anti-PHCA antibody

PHCA Antibody

| CATALOG # | HOST   | REACTIVITY        | APPLICATIONS                                                                       |
|-----------|--------|-------------------|------------------------------------------------------------------------------------|
| AAA324440 | Rabbit | Human, Mouse, Rat | ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot |

### PRODUCT SYNONYMS

PHCA; Polyclonal Antibody; PHCA Antibody; ACER3; Alkaline CDase 3; Alkaline ceramidase 3; Alkaline dihydroceramidase SB89; Alkaline phytoceramidase; AlkCDase 3; aPHC; AV015045; FLJ11238; phytoceramidase; alkaline; anti-PHCA antibody

### PRODUCT SPECIFICATIONS

|                                                |                                                                                                                   |
|------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| Host                                           | Rabbit                                                                                                            |
| Reactivity                                     | Human, Mouse, Rat                                                                                                 |
| Clonality                                      | Polyclonal                                                                                                        |
| Isotype                                        | IgG                                                                                                               |
| Specificity                                    | PHCA antibody detects endogenous levels of total PHCA                                                             |
| Purity/Purification                            | The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.                     |
| Form/Format                                    | Liquid<br>Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.                     |
| Concentration                                  | 1mg/ml (varies by lot)                                                                                            |
| Sequence Length                                | 267                                                                                                               |
| Applicable Applications for anti-PHCA antibody | ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)          |
| Immunogen                                      | A synthesized peptide                                                                                             |
| Subcellular Location                           | Endoplasmic Reticulum Membrane; Multipass Membrane Protein. Golgi Apparatus Membrane; Multipass Membrane Protein. |
| Tissue Specificity                             | Ubiquitously expressed. Highest expression in placenta.                                                           |
| Predicted Cross Reactivity                     | <b>Pig, Bovine, Horse, Sheep, Rabbit, Dog</b>                                                                     |
| Similarity                                     | Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (90%)                                   |
| Conjugation                                    | Unconjugated                                                                                                      |
| Preparation and Storage                        | Store at -20 degree C. Stable for 12 months from date of receipt.                                                 |

IMAGES



IF (Immunofluorescence)

AAA324440 staining COLO205 cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.



WB (Western Blot)

Western blot analysis of extracts from COLO cells, using PHCA antibody.



IHC (Immunohistochemistry)

AAA324440 at 1/100 staining Human breast cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

ADDITIONAL INFORMATION

|                                                    |                                                                                                                                                                              |
|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-PHCA antibody | Function: Hydrolyzes only phytoceramide into phytosphingosine and free fatty acid. Does not have reverse activity.<br>Similarity: Belongs to the alkaline ceramidase family. |
|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

NCBI AND UNIPROT INFORMATION

|                                  |                                                |
|----------------------------------|------------------------------------------------|
| NCBI GI #                        | 170932467                                      |
| NCBI GeneID                      | 55331                                          |
| NCBI Accession #                 | NP_060837.3                                    |
| NCBI GenBank Nucleotide #        | NM_018367.6                                    |
| UniProt Accession #              | Q9NUN7; B2RC99                                 |
| Molecular Weight                 | Observed: 35 kD<br>Predicted: 32 kDa           |
| NCBI Official Full Name          | alkaline ceramidase 3 isoform a                |
| NCBI Official Synonym Full Names | alkaline ceramidase 3                          |
| NCBI Official Symbol             | ACER3                                          |
| NCBI Official Synonym Symbols    | APHC; PHCA; PLDECO                             |
| NCBI Protein Information         | alkaline ceramidase 3                          |
| UniProt Protein Name             | Alkaline ceramidase 3                          |
| UniProt Gene Name                | ACER3                                          |
| UniProt Synonym Gene Names       | APHC; PHCA; AlkCDase 3; Alkaline CDase 3; aPHC |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.