

**DATASHEET**

**SPHK2 (Phospho-T614) Rabbit Polyclonal Antibody**

CAT. NO. APA10051

**KEY FEATURES**

|               |   |               |                    |
|---------------|---|---------------|--------------------|
| Target        | SPHK2 (Phospho-T614)  | Source / Host | Rabbit             |
| Reactivity    | Human, Mouse  | Clonality     | Polyclonal         |
| Applications  | WB, IHC   | Conjugation   | Unconjugated       |
| Form / Buffer | Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide. |               | Storage<br>at-20°C |

**BACKGROUND**

Catalyzes the phosphorylation of sphingosine to form sphingosine-1-phosphate (SPP), a lipid mediator with both intra- and extracellular functions. Also acts on D-erythro-dihydrosphingosine, D-erythro-sphingosine and L-threo-dihydrosphingosine. Binds phosphoinositides, a lipid mediator with both intra- and extracellular functions. Also acts on D-erythro-dihydrosphingosine, D-erythro-sphingosine and L-threo-dihydrosphingosine. Binds phosphoinositides. In contrast to prosurvival SPHK1, has a positive effect on intracellular ceramide levels, inhibits cells growth and enhances apoptosis. In mitochondria, is important for cytochrome-c oxidase assembly and mitochondrial respiration.

**APPLICATION**

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

|     |                |
|-----|----------------|
| WB  | 1:500 - 1:1000 |
| IHC | 1:100 - 1:200  |

\*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

**PRODUCT OVERVIEW**

|                   |   |
|-------------------|---|
| Description       | Rabbit polyclonal antibody to SPHK2 (Phospho-T614)  |
| Specificity       | Recognizes endogenous levels of SPHK2 protein only when phosphorylated at T614.   |
| Antibody Type     | Primary antibody  |
| Immunogen         | KLH-conjugated synthetic phosphopeptide corresponding to residues surrounding T614 of human SPHK2 protein. The exact sequence is proprietary. |
| Purification      | The antibody was purified by immunogen affinity chromatography.   |
| Molecular Weight  | Predicted: 69 kD; Observed: 70 kD   |
| Form/Buffer       | Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.                                     |
| Alternative Names | Sphingosine kinase 2; SK 2; SPK 2   |
| Gene Symbol       | SPHK2   |
| Entrez Gene       | 56848(Human); 56632(Mouse)  |
| SwissProt         | Q9NRA0(Human); Q9JIA7(Mouse)  |

\*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact [info@arexbio.com](mailto:info@arexbio.com) or your local distributor.

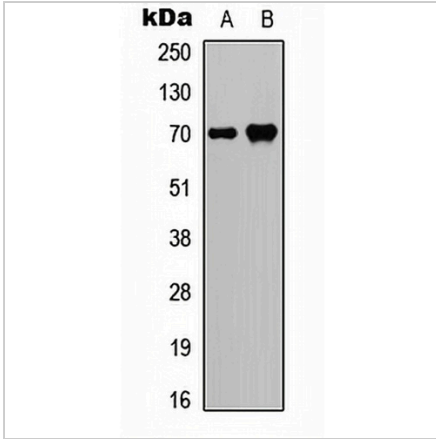
\*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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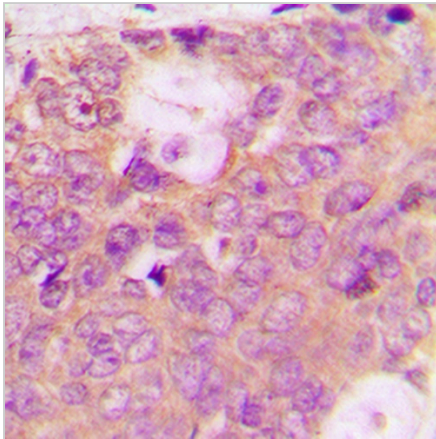
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**DATA**



Western blot analysis of SPHK2 (Phospho-T614) expression in HEK293T (A), HepG2 (B) whole cell lysates. (Predicted band size: 69 kD; Observed band size: 70 kD)



Immunohistochemical analysis of SPHK2 (Phospho-T614) staining in human breast 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.

**STORAGE**

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

**NOTE**

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.