

## Product datasheet for **TA503209**

### **CARKL (SHPK) Mouse Monoclonal Antibody [Clone ID: OTI1D2]**

#### **Product data:**

|                         |   |
|-------------------------|---|
| Product Type:           | Primary Antibodies  |
| Clone Name:             | OTI1D2  |
| Applications:           | IF, WB  |
| Recommended Dilution:   | WB 1:500~2000, IF 1:100   |
| Reactivity:             | Human, Mouse, Rat   |
| Host:                   | Mouse   |
| Isotype:                | IgG2a   |
| Clonality:              | Monoclonal  |
| Immunogen:              | Full length human recombinant protein of human SHPK(NP_037408) produced in HEK293T cell.  |
| Formulation:            | PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.  |
| Concentration:          | 0.63 mg/ml  |
| Purification:           | Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)   |
| Conjugation:            | Unconjugated  |
| Storage:                | Store at -20°C as received.   |
| Stability:              | Stable for 12 months from date of receipt.  |
| Predicted Protein Size: | 51.3 kDa  |
| Gene Name:              | sedoheptulokinase   |
| Database Link:          | <a href="#">NP_037408</a><br><a href="#">Entrez Gene 74637 Mouse</a> <a href="#">Entrez Gene 287479 Rat</a> <a href="#">Entrez Gene 23729 Human</a><br><a href="#">Q9UHJ6</a> |



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**Background:**

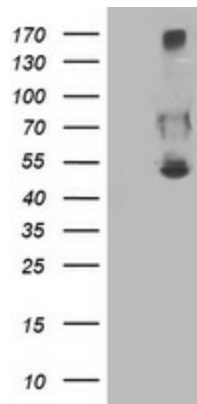
The protein encoded by this gene has weak homology to several carbohydrate kinases, a class of proteins involved in the phosphorylation of sugars as they enter a cell, inhibiting return across the cell membrane. Sequence variation between this novel gene and known carbohydrate kinases suggests the possibility of a different substrate, cofactor or changes in kinetic properties distinguishing it from other carbohydrate kinases. The gene resides in a region commonly deleted in cystinosis patients, suggesting a role as a modifier for the cystinosis phenotype. The genomic region is also rich in Alu repetitive sequences, frequently involved in chromosomal rearrangements. [provided by RefSeq, Jul 2008]

**Synonyms:**

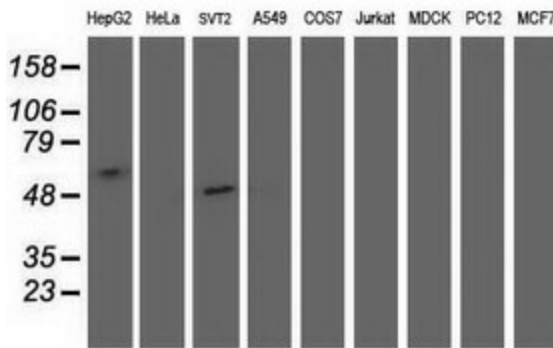
CARKL; SHK

**Protein Families:**

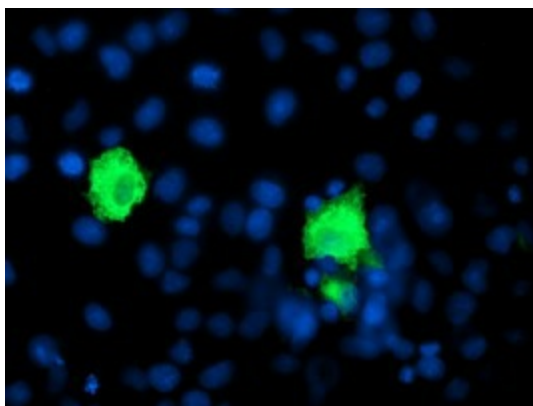
Druggable Genome

**Product images:**


HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY SHPK ([RC204421], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-SHPK. Positive lysates [LY415695] (100ug) and [LC415695] (20ug) can be purchased separately from OriGene.



Western blot analysis of extracts (35ug) from 9 different cell lines by using anti-SHPK monoclonal antibody (HepG2: human; HeLa: human; SVT2: mouse; A549: human; COS7: monkey; Jurkat: human; MDCK: canine; PC12: rat; MCF7: human).



Anti-SHPK mouse monoclonal antibody (TA503209) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY SHPK ([RC204421]).