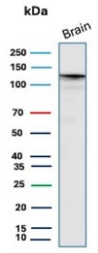
# HK1 Antibody / Hexokinase 1 [clone HK1/9506] (V5728)

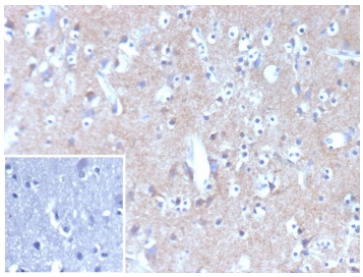
| Catalog No. | Formulation | Size |
|---|---|---|
| V5728-100UG | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide | 100 ug |
| V5728-20UG | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide | 20 ug |
| V5728SAF-100UG | 1 mg/ml in 1X PBS; BSA free, sodium azide free | 100 ug |

**Bulk quote request**

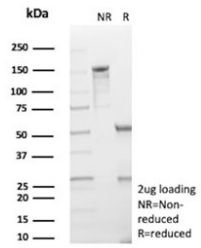
| | |
|---|---|
| **Availability** | 1-3 business days |
| **Species Reactivity** | Human |
| **Format** | Purified |
| **Clonality** | Monoclonal (mouse origin) |
| **Isotype** | Mouse IgG2b, kappa |
| **Clone Name** | HK1/9506 |
| **Purity** | Protein G affinity |
| **UniProt** | P19367 |
| **Applications** | Immunohistochemistry (FFPE) : 1-2ug/ml<br>Western Blot : 2-4ug/ml |
| **Limitations** | This HK1 antibody is available for research use only. |




Western blot testing of human brain tissue lysate with HK1 antibody (clone HK1/9506). Predicted molecular weight ~120 kDa.



IHC staining of FFPE human brain tissue with HK1 antibody (clone HK1/9506). Inset: PBS used in place of primary Ab (secondary Ab negative control). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.




SDS-PAGE analysis of purified, BSA-free HK1 antibody (clone HK1/9506) as confirmation of integrity and purity.

## Description

Hexokinases phosphorylate glucose to produce glucose-6-phosphate, the first step in most glucose metabolism pathways. This gene encodes a ubiquitous form of hexokinase which localizes to the outer membrane of mitochondria. Mutations in this gene have been associated with hemolytic anemia due to hexokinase deficiency. Alternative splicing of this gene results in several transcript variants which encode different isoforms, some of which are tissue-specific.

## Application Notes

Optimal dilution of the HK1 antibody should be determined by the researcher.

## Immunogen

A portion of amino acids 1-200 from human Hexokinase 1 protein was used as the immunogen for the HK1 antibody.

## Storage

Aliquot the HK1 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.