Anti-Human NAGK Antibody [K1E005_10B6]

Catalog No. K1E005C10B06C

Overview

- **Product name**: Anti-Human NAGK Antibody [K1E005_10B6]
- **Antibody specificity**: N-acetylglucosamine kinase
- **Species reactivity**: Human
- **Clonality**: Monoclonal
- **Clone number**: K1E005_10B6
- **Host / isotype**: Mouse / IgG1
- **Immunogen**: Recombinant human NAGK
- **Cross reactivity**: Not tested
- **Kinetic characterization by BLI (biolayer interferometry)**: Not tested
- **Purification**: Protein A purified from cell culture supernatants
- **Form**: Liquid
- **Concentration**: 1 mg/mL in phosphate buffered saline containing 0.09% preservative
- **Conjugation**: Unconjugated
- **Shipping, storage and shelf life**:
  - * 3 months when stored at 2 to 8 °C
  - * 1 year when aliquoted and stored at -20 °C
  - * 3 years when aliquoted and stored at -80 °C

Applications

<table>
<thead>
<tr>
<th>Application</th>
<th>Recommended concentration</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>Western blot (WB)</td>
<td>1 µg/mL</td>
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<tr>
<td>Indirect ELISA</td>
<td>1 µg/mL</td>
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<tr>
<td>Immunoprecipitation (IP)</td>
<td>10 µg/mL</td>
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**Note:**
- * The applications above have already been verified. The antibody may be suitable for additional applications.
- * Optimal antibody concentrations for each application should be determined by the user.

Additional information

- **Target antigen**
  - **Protein name**: N-acetylglucosamine kinase
  - **Gene name**: NAGK
  - **UniProt Accession**: Q9UJ70
  - **Organism**: Homo sapiens (Human)
**Product data**

**Western blotting**

Various protein samples were run on 6-18% SDS-PAGE under reducing conditions and blotted onto nitrocellulose membrane. K1E005_10B6 at 1 µg/mL was used as the primary antibody and peroxidase conjugated goat anti-mouse IgG was used as the secondary antibody. NAGK band was visualized using ECL Western Blotting Substrate.

Lane 1: 15 µg of HeLa lysate  
Lane 2: 15 µg of Jurkat lysate  
Lane 3: 15 µg of HEK-293 lysate  

Result: K1E005_10B6 can detect human NAGK by Western blotting.

**Immunoprecipitation**

Immunoprecipitation was performed by incubation of 2.5 µg K1E005_10B6 with HeLa lysate containing 200 µg total protein. After absorption with Protein G beads, the mixture was run on 6-18% SDS-PAGE and blotted onto nitrocellulose membrane. Anti-human NAGK (K1E005_8C10) at 1 µg/mL was used as the primary antibody and peroxidase conjugated rabbit anti-mouse IgG (Light chain specific) was used as the secondary antibody. The isotype control antibody was KT82.

Lane 1: HeLa lysate  
Lane 2: Human NAGK immunoprecipitated from HeLa lysate by K1E005_10B6  
Lane 3: The same as Lane 2 but KT82 was used as IgG isotype control antibody  

Result: K1E005_10B6 can immunoprecipitate human NAGK.