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Research Use Only. Not for diagnostic or therapeutic use.

Storage: For long-term storage keep aliquots at -20°C. (Store no longer than 12 months at 4°C). Minimize freezing and thawing.

EB08460 – Goat anti-arylsulfatase K antibody

Size: 100µg specific antibody in 200µl

This product is one of a range of Investigative Grade antibodies, made against targets that have limited or no commercial antibodies available to them and for which there are no data on the expression of the protein in the range of common cell lines and tissues available to us. These antibodies are affinity purified using their peptide immunogen and are known to give low background staining in a western blot (see Application Notes below). However no additional claims are made for their ability to recognise native protein in any application.

Target Protein

Principal Names: ARSK; arylsulfatase family, member K; DKFZp313G1735; TSULF; arylsulfatase K; telethon sulfatase

Official Gene Symbol: ARSK

Accession Number(s): NP_937793.1

Human Gene ID(s): 153642

Non-Human GeneID(s): 365619 (rat);

Immunogen

Peptide with sequence C-HQDWQKEPRKYEN, from the C Terminus of the protein sequence according to NP_937793.1

Purification

Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.

Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin.

Applications Tested

Peptide ELISA: antibody detection limit dilution 1:128,000. Western Blot: Preliminary experiments gave bands at approx. 75kDa and 25kDa in Rat Brain lysates after 1µg/ml antibody staining. Please note that currently we cannot find an explanation in the literature for the bands we observe given the calculated size of 61.5kDa according to NP_937793.1. Both detected bands were successfully blocked by incubation with the immunizing peptide (and BLAST results with the immunizing peptide sequence did not identify any other proteins to explain the additional bands). We would appreciate any feedback from people in the field - have any results been reported with other antibodies/lysates? Have any further splice variants/modified forms been reported?

Species Reactivity

Tested:
Expected from sequence similarity: Human, Rat

Background Reference

Obaya AJ.
Molecular cloning and initial characterization of three novel human sulfatases.
Gene. 2006 May 10;372:110-7. Epub 2006 Feb 24.
PMID: 16500042