



## RayBiotech, Inc.

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### Certificate of Analysis and Data Sheet

## Goat Anti-Arylsulfatase A With HRP-conjugated Secondary Antibody

**Catalog No.**  
ER-14-0186

**Accession Number**  
NP\_000478.2

#### ***Target Protein***

**Principal Names:** cerebroside 3-sulfatase, cerebroside-sulfatase, MLD, arylsulfatase A, ARSA

**Official Symbol:** ARSA

**Accession Number(s):** NP\_000478.2

**Human GeneID(s):** [410](#)

**Non-Human GeneID(s):** 11883 (mouse), 315222 (rat)

#### ***Immunogen***

Peptide with sequence C-YDLSKDPGENYN, from the internal region of the protein sequence according to NP\_000478.2.

#### ***Purification and Storage***

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. Aliquot and store at -20°C. Minimize freezing and thawing.

#### ***Applications Tested***

**Peptide ELISA:** antibody detection limit dilution 1:32000.

**Western blot:** Approx 55kDa band observed in Mouse Testis lysates (calculated MW of 53.6kDa according to human NP\_000478.2 and 53.7kDa according to Mouse NP\_033843.2). Recommended concentration: 0.5-1.5µg/ml.

#### ***Species Reactivity***

**Tested:** Mouse

**Expected from sequence similarity:** Human, Mouse, Rat

#### ***Specific Reference***

This antibody has been successfully used in the following papers:

Zhang X, Nakajima T, Kamijo Y, Li G, Hu R, Kannagi R, Kyogashima M, Aoyama T, Hara A. Acute kidney injury induced by protein-overload nephropathy down-regulates gene expression of hepatic cerebroside sulfotransferase in mice, resulting in reduction of liver and serum sulfatides. *Biochem Biophys Res Commun.* 2009 Dec 25;390(4):1382-8. **PMID:** 19895791

**The products are furnished for LABORATORY RESEARCH USE ONLY.  
Not for diagnostic or therapeutic use.**



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### *Secondary Antibody Applications*

Immunoassay (ELISA, Western blotting): 1:5,000-1:10,000

### *Image*



ER-14-0186 (0.5 $\mu$ g/ml) staining of Mouse Testis lysate (35 $\mu$ g protein in RIPA buffer).  
Primary incubation was 1 hour. Detected by chemiluminescence.

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