

## Monoclonal anti-human AKR7A3 antibody (clone AT2E11)

Mouse IgG<sub>1</sub>, κ

Cat. No. IBATGA0216

**Immunogen:** Recombinant human AKR7A3 (1-331aa) purified from *E. coli*

**NCBI Accession No.:** NP\_036199

**Isotype:** Mouse IgG<sub>1</sub> heavy chain and κ light chain

**Clone:** Anti-human AKR7A3 mAb, clone AT2E11, is derived from hybridization of mouse F0 myeloma cells with spleen cells from BALB/c mice immunized with a recombinant human AKR7A3 protein.

**Description:** Aldo-keto reductase family 7, member A 3 (AKR7A3) is a member of the aldo/keto reductase superfamily involved in the detoxification and metabolism of a variety of exogenous aldehydes and ketones. The activity of AKR7A3 may detoxify the aflatoxin B1 (AFB1) dialdehyde, which reacts with proteins, and thereby inhibits AFB1 induced toxicity. AKR7A3 is expressed in kidney, colon, pancreas, endometrium and adenocarcinoma.

**Concentration:** 1mg/ml

**Form:** Liquid. In Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% Glycerol.

**Storage:** Can be stored at +4°C. For long term storage, aliquot and store at -20°C. Avoid repeated freezing and thawing cycles.

**Usage:** The antibody has been tested by ELISA, Western blot analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

**Application:** ELISA, WB

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.



Manufactured for:

Immuno-Biological Laboratories, Inc. (IBL-America)  
8201 Central Ave. NE, Suite P, Minneapolis, Minnesota 55432, USA  
Phone: (888) 523-1246 Fax.: (763) 780-2988  
Email: [info@ibl-america.com](mailto:info@ibl-america.com) Web: [www.ibl-america.com](http://www.ibl-america.com)

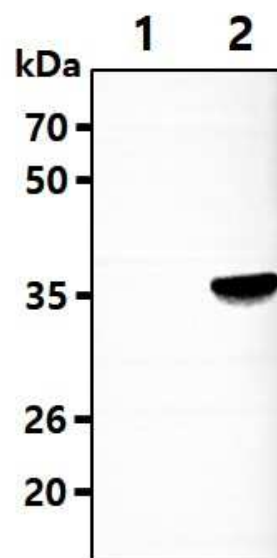
# Product information

## Western blot analysis

The Cell lysates (5ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human AKR7A3 antibody (1:3000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Lane 1.: 293T cell lysate

Lane 2.: AKR7A3 Transfected 293T cell lysate



**General references:** Bodreddigari S., *et al.* (2008) *Chem Res Toxicol.* **21**: 1134-1142.  
Borhani DW., *et al.* (1992) *J Biol Chem.* **267**(34): 24841-24847.

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