

# Product Datasheet

## AKR1A1 Antibody (1A11-2A4) - Azide and BSA Free H00010327-M01

Unit Size: 0.1 mg

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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### Publications: 3

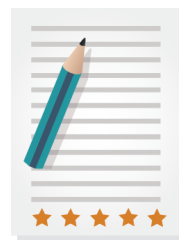
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**H00010327-M01**

AKR1A1 Antibody (1A11-2A4) - Azide and BSA Free

| Product Information |                                                                                                                  |
|---------------------|------------------------------------------------------------------------------------------------------------------|
| Unit Size           | 0.1 mg                                                                                                           |
| Concentration       | Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services. |
| Storage             | Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.                                                     |
| Clonality           | Monoclonal                                                                                                       |
| Clone               | 1A11-2A4                                                                                                         |
| Preservative        | No Preservative                                                                                                  |
| Isotype             | IgG1 Kappa                                                                                                       |
| Purity              | IgG purified                                                                                                     |
| Buffer              | In 1x PBS, pH 7.4                                                                                                |

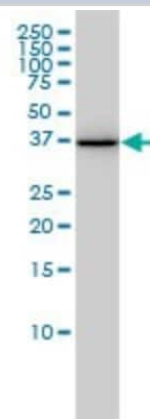
| Product Description     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description             | Novus Biologicals Mouse AKR1A1 Antibody (1A11-2A4) - Azide and BSA Free (H00010327-M01) is a monoclonal antibody validated for use in IHC, WB and ELISA. Anti-AKR1A1 Antibody: Cited in 3 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.                                                                                                                                                                                                              |
| Host                    | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Gene ID                 | 10327                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Gene Symbol             | AKR1A1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Species                 | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Reactivity Notes        | Human. Other species not tested.                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Specificity/Sensitivity | AKR1A1 - aldo-keto reductase family 1, member A1 (aldehyde reductase)                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Immunogen               | AKR1A1 (AAH00670, 1 a.a. ~ 325 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.<br>MAASCVLLHTGQKMPLIGLTWKSEPGQVKA AVKYALSVGYRHIDCAAIYGNE<br>PEIGEALKEDVGPGKAVPREELFVTSKLWNTKHHPEDVEPALRKT LADLQLEYL<br>DLYLMHWPYAFERGDNPFPKNADGTICYDSTHYKETWKALEALVAKGLVQAL<br>GLSNFNSRQIDDILSVASVRPAVLQVECHPYLAQNELIAHCQARGLEV TAYSPL<br>GSSDRAWRDPDEPVLLEEPVVLALAEKYGRSPAQILLRWQVQRKVICIPKSITP<br>SRILQNIKVFDFTFSP EEMKQLNALNKNWRYIVPMLTVDGKRVPRDAGHPLYPF<br>NDPY |
| Notes                   | This product is produced by and distributed for Abnova, a company based in Taiwan.                                                                                                                                                                                                                                                                                                                                                                                                       |

| Product Application Details |                                                                                                                                                   |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| Applications                | Western Blot, Immunohistochemistry-Paraffin, ELISA, Immunohistochemistry, Sandwich ELISA                                                          |
| Recommended Dilutions       | Western Blot 1:500, ELISA, Immunohistochemistry, Immunohistochemistry-Paraffin, Sandwich ELISA                                                    |
| Application Notes           | Antibody reactive against cell lysate and recombinant protein for Western Blot. Has also been used for immunohistochemistry (paraffin) and ELISA. |

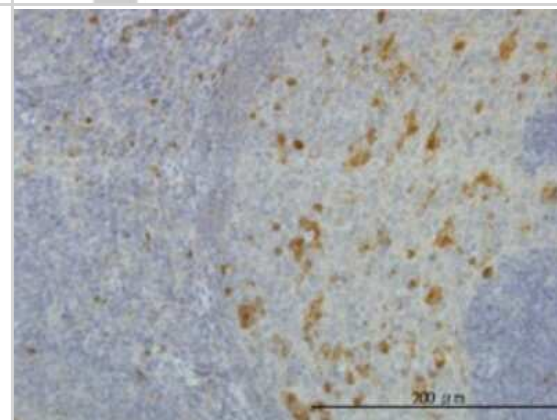


## Images

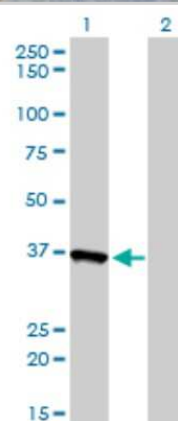
Western Blot: AKR1A1 Antibody (1A11-2A4) [H00010327-M01] - AKR1A1 monoclonal antibody (M01), clone 1A11-2A4 Analysis of AKR1A1 expression in HL-60.



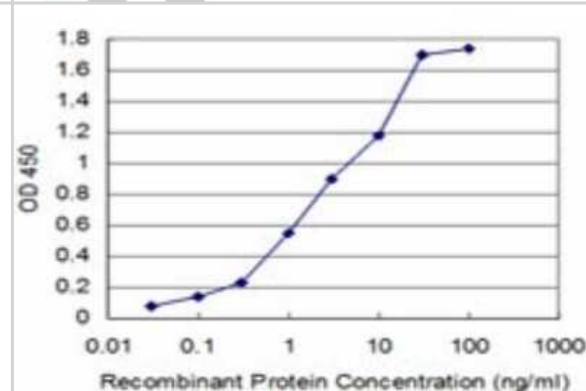
Immunohistochemistry-Paraffin: AKR1A1 Antibody (1A11-2A4) [H00010327-M01] - Analysis of monoclonal antibody to AKR1A1 on formalin-fixed paraffin-embedded human tonsil. Antibody concentration 0.75 ug/ml.



Western Blot: AKR1A1 Antibody (1A11-2A4) [H00010327-M01] - Analysis of AKR1A1 expression in transfected 293T cell line by AKR1A1 monoclonal antibody (M01), clone 1A11-2A4. Lane 1: AKR1A1 transfected lysate (36.6 KDa). Lane 2: Non-transfected lysate.



Sandwich ELISA: AKR1A1 Antibody (1A11-2A4) [H00010327-M01] - Detection limit for recombinant GST tagged AKR1A1 is approximately 0.1 ng/ml as a capture antibody.



## Publications

Takahashi RH, Bains OS, Pfeifer TA et al. Aldo-keto reductase 1C2 fails to metabolize doxorubicin and daunorubicin in vitro. *Drug Metab Dispos*. 2008-03-05 [PMID: 18322072]

Bains OS, Takahashi RH, Pfeifer TA et al. Two allelic variants of aldo-keto reductase 1A1 exhibit reduced in vitro metabolism of daunorubicin. *Drug Metab Dispos*;36(5):904-10. 2008-05-01 [PMID: 18276838]

Singer D, Herth N, Kuhlmann J et al. Mapping of phosphorylation-dependent anti-tau monoclonal antibodies in immunoblots using human tau-constructs synthesized by native chemical ligation. *Biochem Biophys Res Commun*;367(2):318-22. 2008-03-07 [PMID: 18162172]



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**Products Related to H00010327-M01**

|                  |                                                         |
|------------------|---------------------------------------------------------|
| HAF007           | Goat anti-Mouse IgG Secondary Antibody [HRP]            |
| NB720-B          | Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin] |
| NBP1-43319-0.5mg | Mouse IgG1 Kappa Isotype Control (P3.6.2.8.1)           |
| NBP1-30170       | Recombinant Human AKR1A1 Protein                        |

**Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

For more information on our 100% guarantee, please visit [www.novusbio.com/guarantee](http://www.novusbio.com/guarantee)

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