

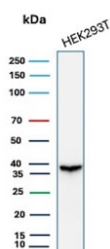
## Recombinant Aldose reductase 1B1 Antibody / AKR1B1 [clone rAKR1B1/7296] (V9757)

| Catalog No.    | Formulation                                                             | Size   |
|----------------|-------------------------------------------------------------------------|--------|
| V9757-100UG    | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide | 100 ug |
| V9757-20UG     | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide | 20 ug  |
| V9757SAF-100UG | 1 mg/ml in 1X PBS; BSA free, sodium azide free                          | 100 ug |

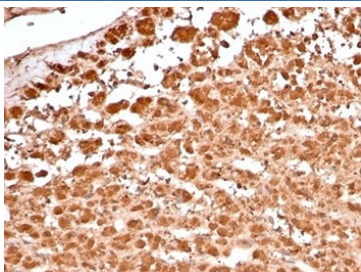
### Recombinant MOUSE MONOCLONAL

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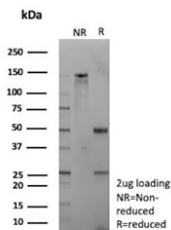
|                    |                                                                                                    |
|--------------------|----------------------------------------------------------------------------------------------------|
| Availability       | 1-3 business days                                                                                  |
| Species Reactivity | Human                                                                                              |
| Format             | Purified                                                                                           |
| Clonality          | Recombinant Mouse Monoclonal                                                                       |
| Isotype            | Mouse IgG1, kappa                                                                                  |
| Clone Name         | rAKR1B1/7296                                                                                       |
| Purity             | Protein A/G affinity                                                                               |
| UniProt            | P15121                                                                                             |
| Localization       | Cytoplasm                                                                                          |
| Applications       | Immunofluorescence : 1-2ug/ml<br>Western Blot : 2-4ug/ml<br>Immunohistochemistry (FFPE) : 1-2ug/ml |
| Limitations        | This recombinant Aldose reductase 1B1 antibody is available for research use only.                 |



Western blot testing of human 293T cell lysate with recombinant Aldose reductase 1B1 antibody (clone rAKR1B1/7296). Predicted molecular weight ~36 kDa.



IHC staining of FFPE human adrenal gland tissue with recombinant Aldose reductase 1B1 antibody (clone rAKR1B1/7296). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



SDS-PAGE analysis of purified, BSA-free recombinant Aldose reductase 1B1 antibody (clone rAKR1B1/7296) as confirmation of integrity and purity.

## Description

AKR1B1, also designated as aldose reductase, is a member of the aldo/keto reductase superfamily, which consists of more than 40 known enzymes and proteins. This protein catalyzes the reduction of a number of aldehydes, including the aldehyde form of glucose, and is thereby implicated in the development of diabetic complications by catalyzing the reduction of glucose to sorbitol. It has also been shown to have decreased expression in adrenocortical cancer, and possibly play a role in adrenal tumorigenesis. It has been suggested that AKR1B1 could be investigated as a marker of malignancy for adrenal tumor diagnosis.

## Application Notes

Optimal dilution of the recombinant Aldose reductase 1B1 antibody should be determined by the researcher.

## Immunogen

Recombinant human full-length protein was used as the immunogen for the recombinant Aldose reductase 1B1 antibody.

## Storage

Aliquot the recombinant Aldose reductase 1B1 antibody and store frozen at -20°C or colder. Avoid repeated freeze-thaw cycles.