

## Datasheet for ABIN7650302 **anti-CALB1 antibody (AA 7-96)**



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### Overview

|                      |                                                                                                         |
|----------------------|---------------------------------------------------------------------------------------------------------|
| Quantity:            | 100 µL                                                                                                  |
| Target:              | CALB1                                                                                                   |
| Binding Specificity: | AA 7-96                                                                                                 |
| Reactivity:          | Human                                                                                                   |
| Host:                | Mouse                                                                                                   |
| Clonality:           | Monoclonal                                                                                              |
| Conjugate:           | This CALB1 antibody is un-conjugated                                                                    |
| Application:         | Immunohistochemistry (IHC), Immunohistochemistry (Formalin-fixed Paraffin-embedded Sections) (IHC (fp)) |

### Product Details

|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
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| Purpose:         | Calbindin 1 (CALB1)(CALB1/2782)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Immunogen:       | Recombinant fragment (around aa 7-96) of human CALB1 protein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Clone:           | CALB1-2782                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Isotype:         | IgG2b, kappa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Characteristics: | Calbindin 1, also known as calbindin D28K, is a member of a family of calcium binding proteins. This protein family also includes calmodulin, calbindin 2, S-100, and troponin C. Calbindin 1 is a 261-amino acid protein with 6 EF-hand domains, 4 of which are active calcium-binding domains. Expressed in brain, ovary, uterus, testis, pancreas, liver, kidney and intestine, calbindin 1 acts as a calcium-buffering agent and alters the activity of the plasma membrane ATPase. In neuronal cells, calbindin 1 modulates calcium channel activity, calcium transients and intrinsic |

## Product Details

neuronal firing activity. Also, calbindin 1 has been implicated to play a role in apoptosis and microtubule function. Primary antibodies are available purified, or with a selection of fluorescent CF® Dyes and other labels. CF® Dyes offer exceptional brightness and photostability. Note: Conjugates of blue fluorescent dyes like CF®405S and CF®405M are not recommended for detecting low abundance targets, because blue dyes have lower fluorescence and can give higher non-specific background than other dye colors.

## Target Details

|                   |                                                                                                                                           |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| Target:           | CALB1                                                                                                                                     |
| Alternative Name: | Calbindin 1                                                                                                                               |
| Background:       | Synonyms: Calbindin, Calbindin 1, Calbindin D28, Calbindin D28K, CALB1, Vitamin D dependent calcium binding protein<br>Gene Symbol: CALB1 |
| Molecular Weight: | 52 kDa                                                                                                                                    |
| Gene ID:          | 793                                                                                                                                       |
| UniProt:          | <a href="#">P05937</a>                                                                                                                    |

## Application Details

|                    |                                                                                    |
|--------------------|------------------------------------------------------------------------------------|
| Application Notes: | Optimal working dilution should be determined by the investigator.                 |
| Comment:           | Positive Control: 293T or HepG2 cells. Prostate, Lung, Pancreas, Kidney and Liver. |
| Restrictions:      | For Research Use only                                                              |

## Handling

|                    |                                                                                                                        |
|--------------------|------------------------------------------------------------------------------------------------------------------------|
| Format:            | Liquid                                                                                                                 |
| Concentration:     | 0.2 mg/mL                                                                                                              |
| Buffer:            | PBS, 0.05 % BSA, 0.05 % azide                                                                                          |
| Preservative:      | Sodium azide                                                                                                           |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| Storage:           | 4 °C                                                                                                                   |

Handling

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|                  |                                                              |
|------------------|--------------------------------------------------------------|
| Storage Comment: | Stable at room temperature or 37°C for 7 days.               |
|                  | Store at 2 to 8°C. Protect fluorescent conjugates from light |
| Expiry Date:     | 24 months                                                    |