Cat.No. 214 006; Polyclonal chicken antibody, 200 µl antibody (lyophilized)

**Data Sheet**

<table>
<thead>
<tr>
<th>Reconstitution/Storage</th>
<th>200 µl antibody, lyophilized. For reconstitution add 200 µl H₂O, then aliquot and store at -20°C until use.</th>
</tr>
</thead>
</table>
| Applications           | **WB**: 1 : 1000 up to 1 : 5000 (AP staining)  
|                        | **IP**: yes  
|                        | **ICC**: 1 : 200 up to 1 : 500  
|                        | **IHC-P/FFPE**: 1 : 200 |
| Immunogen              | Recombinant protein corresponding to AA 3 to 251 from human CalbindinD28k (UniProt Id: P05937) |
| Reactivity             | Reacts with: human (P05937), rat (P07171), mouse (P12658), monkey, ape, cow. Other species not tested yet. |
| Specificity            | Specific for calbindin D28k. |
| matching control       | 214-0P |

**Selected References SYSY Antibodies**

Amot and Yap1 regulate neuronal dendritic tree complexity and locomotor coordination in mice.
Rojek KO, Krzemień J, Doleżyłczek H, Boguszewski PM, Kaczmarek L, Konopka W, Ryśki M, Jaworski J, Holmgren L, Prószyński TJ  

**Selected General References**

Influence of the "open field" exposure on calbindin D28K, calretinin, and parvalbumin containing cells in the rat midbrain - developmental study.
Klejbor I, Ludwikiewicz B, Domaradzka-Pyetl B, Spodnik JH, Dzwietakowski J, Moryś J  
Calbindin D-28 and microtubule-associated protein-2: their use as sensitive immunohistochemical markers of cerebellar neurotoxicity in a regulatory toxicity study.
Haworth R, McCormack N, Selway S, Pilling AM, Williams TC  
Mutational analysis of dendritic Ca₂⁺ kinetics in rodent Purkinje cells: role of parvalbumin and calbindin D28k.
Schmidt H, Stöferl KM, Racay P, Schwallier B, Elers J  
Calbindin in cerebellar Purkinje cells is a critical determinant of the precision of motor coordination.
Schwallier B, Meyer M, Schiffsman S  
Synthesis of calbindin-D28K during mineralization in human bone marrow stromal cells.
Fauchex C, Bareille R, Amendez J  
Calbindin-D in peripheral nerve cells is vitamin D and calcium dependent.
Lee YS, Taylor AN, Reimers TJ, Edelstein S, Fullmer CS, Wasserman RH  

Two isoforms of the vitamin D-dependent Ca-binding proteins have been described so far: calbindin **D28k**, also referred to as CALB 1, D-28k, and CAB 27, and calbindin D29k, also known as calretinin. These proteins are expressed in cells that have to handle a high calcium influx such as brain, bone, teeth, inner ear and others. Calbindins are believed to regulate cellular activity by suppressing or buffering intracellular calcium.