**bs-10177R**

**[ Primary Antibody ]**

# CALB1 Rabbit pAb

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## DATASHEET

**Host:** Rabbit
**Isotype:** IgG
**Clonality:** Polyclonal
**GeneID:** 793
**SWISS:** P05937
**Target:** CALB1
**Immunogen:** KLH conjugated synthetic peptide derived from human Calbindin: 41-150/261.
**Purification:** affinity purified by Protein A
**Concentration:** 1mg/ml
**Storage:** 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
**Background:** Calbindin is a calcium-binding protein belonging to the troponin C superfamily. It was originally described as a 27-kD protein induced by vitamin D in the duodenum of the chick. In the brain, its synthesis is independent of vitamin-D-derived hormones. Calbindin contains 4 active calcium-binding domains, and 2 modified domains that presumably have lost their calcium-binding capacity. The neurons in brains of patients with Huntington disease are calbindin-depleted. [provided by RefSeq, Jul 2008]

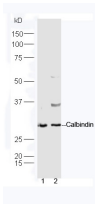
**Applications:** **WB** (1:500-2000)
**IHC-P** (1:100-500)
**IHC-F** (1:100-500)
**IF** (1:100-500)
**ICC/IF** (1:50)

**Reactivity:** Human, Mouse, Rat (predicted: Rabbit, Pig, Cow, Dog, Horse)

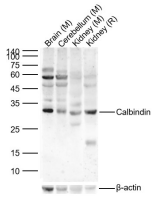
**Predicted MW.:** 29 kDa

**Subcellular Location:** Cell membrane ,Cytoplasm

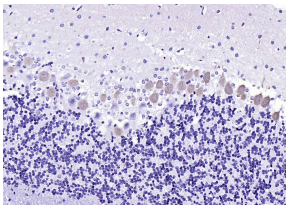
## VALIDATION IMAGES



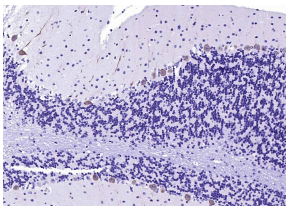

Sample: kidney (mouse) Lysate at 40 ug brain (Mouse) Lysate at 40 ug Primary: Anti-Calbindin(bs-10177R) at 1/300 dilution Secondary: HRP conjugated Goat-Anti-rabbit IgG(bs-0295G-HRP) at 1: 5000; Predicted band size: 29 kD Observed band size: 29 kD



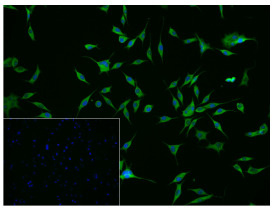

Sample: Lane 1: Mouse Brain Lysates Lane 2: Mouse Cerebellum Lysates Lane 3: Mouse Kidney Lysates Lane 4: Rat Kidney Lysates Primary: Anti-Calbindin (bs-10177R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 29kDa Observed band size: 29kDa



Paraformaldehyde-fixed, paraffin embedded (rat cerebellum); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Calbindin) Polyclonal Antibody, Unconjugated (bs-10177R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Paraformaldehyde-fixed, paraffin embedded (mouse cerebellum); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody



4% Paraformaldehyde-fixed SHSY5Y (H) cell; Triton X-100 at r.t. for 20 min; Antibody incubation with (Calbindin) polyclonal Antibody, unconjugated (bs-10177R) 1:50, 90 min at 37°C; followed by conjugated Goat Anti-Rabbit IgG antibody (green, bs-0295G-FITC) at 37°C for 90

incubation with (Calbindin) Polyclonal Antibody, Unconjugated (bs-10177R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

min, DAPI (blue, C02-04002) was used to stain the cell nuclei. PBS instead of the primary antibody was used as the blank control.