Rabbit Anti-Human Protein Gene Protein 9.5 (PGP9.5) Polyclonal Antibody

**CATALOG #:**
- E3340: 0.1 ml immunogen affinity purified rabbit polyclonal antibody in PBS/1% BSA buffer pH 7.6 with less than 0.1% sodium azide.
- E3344: 1 ml immunogen affinity purified rabbit polyclonal antibody in PBS/1% BSA buffer pH 7.6 with less than 0.1% sodium azide.
- E3341: 7 ml pre-diluted immunogen affinity purified rabbit polyclonal antibody in TBS/1% BSA buffer pH 7.6 with less than 0.1% sodium azide. *(For IHC only)*

**INTENDED USE:** For Research Use Only. Not for use in diagnostic procedures.

**CLONE:** N/A

**IMMUNOGEN:** Recombinant full length human protein gene product 9.5 protein.

**IG ISOTYPE:** Rabbit IgG

**EPITOPE:** Not determined

**MOLECULAR WEIGHT:** 27kDa

**SPECIES REACTIVITY:** Human (tested). Others not tested.

**DESCRIPTION:** Protein gene product (PGP9.5) is a neuron specific protein, structurally and immunologically distinct from neuron specific enolase. The protein which has a molecular weight of 27kDa was first identified by high resolution two dimensional PAGE. Standard immunohistochemical techniques have demonstrated the presence of PGP9.5 in neurons and nerve fibers at all levels of the central and peripheral nervous system, in many neuroendocrine cells, in segments of the renal tubules, in spermatogonia and Leydig cells of the testis, in ova and in some cells of both the pregnant and non-pregnant corpus luteum. This antibody is of value as a marker for neurons and may be of particular use in the study of ubiquitinated cellular inclusions characteristic of several chronic human neurodegenerative diseases.

**APPLICATIONS:** Immunohistochemistry (IHC) and Western Blotting

**IHC PROCEDURE:**
- **Specimen Preparation:** Formalin-fixed, paraffin-embedded tissues are suitable for use with this primary antibody.
- **Deparaffinization:** Deparaffinize slides using xylene or xylene alternative and graded alcohols.
- **Antibody Dilution:** If using the concentrate format of this product, dilute the antibody 1/200. The dilutions are estimates; actual results may differ because of variability in methods and protocols.
- **Antigen Retrieval:** Boil tissue sections in 10mM citrate buffer, pH 6.0 for 10 min followed by cooling at RT for 20 min.
- **Primary Antibody Incubation:** Incubate for 10 minutes at RT.
- **Slide Washing:** Slides must be washed in between steps. Rinse slides with PBS/0.05% Tween.
- **Visualization:** Detect the antibody as instructed by the instructions provided with the visualization system.

**WESTERN BLOTTING:**
Recommended starting protocol: Dilute the antibody 1:25. Incubate for 1 hour at room temperature. The dilution is an estimate; actual results may differ because of variability in methods and protocols. Optimal dilution and procedure should be determined by the end user.

**POSITIVE CONTROL:** Pancreas and small intestine

**CELLULAR LOCALIZATION:** Cytoplasm and nucleus

**STORAGE & STABILITY:** Store at 2-8°C. Do not freeze. The user must validate any other storage conditions. When properly stored, the reagent is stable to the date indicated on the label. Do not use the reagent beyond the expiration date.

There are no definitive signs to indicate instability of this product; therefore, positive and negative controls should be tested simultaneously with unknown specimens.
WARNINGS & PRECAUTIONS:

1. Avoid contact of reagents with eyes and mucous membranes. If reagents come into contact with sensitive areas, wash with copious amounts of water.
2. This product is harmful if swallowed.
3. Consult local or state authorities with regard to recommended method of disposal.
4. Avoid microbial contamination of reagents.