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**[ Marker Primary Antibody ]**

# Rabbit Anti-Epsin 2/Biotin Conjugated antibody

**Catalog Number: SL13102R-Bio**

**FOR RESEARCH USE ONLY**

**[ DATASHEET ]**

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| **Host:** | Rabbit |
| **Isotype:** | IgG |
| **Clonality:** | Polyclonal |
| **Target:** | Anti-Epsin 2/Biotin |
| **Immunogen:** | KLH conjugated synthetic peptide derived from human Epsin 2 |
| **Purification:** | affinity purified by Protein A |
| **Concentration:** | 1mg/ml |
| **Storage:** | Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C. |
| **Applications:** | WB=1:500-2000<br>IHC-P=1:100-500<br>IHC-F=1:100-500<br>IF=1:100-500<br>not yet tested in other applications.<br>optimal dilutions/concentrations should be determined by the end user. |
| **Reactivity:** | Human,Mouse(predicted:Rat,Chicken,Dog,Cow,Horse,Rabbit) |
| **Background:** | background: Elucidation of the mechanism by which receptor tyrosine kinases (RTKs) modulate cellular physiology in response to stimuli is critical to the understanding of growth regulation. Miscues in RTK signaling pathways can result in cellular transformation and ultimately in cancer. Two novel EGF receptor substrates have been described, designated EGF-receptor pathway substrates 8 and 15, or Eps8 and Eps15.<br>Epsin is a binding partner to Eps15. Both epsin and Eps15 have an ubiquitous tissue distribution but are concentrated in presynaptic nerve terminals specialized for the Clathrin-mediated endocytosis of synaptic vesicles. Disruption of epsin function blocks Clathrin-mediated endocytosis.<br>Epsin, along with its binding partner Eps15, is proposed to be involved in the assistance of Clathrin coat rearrangement during Clathrin coated pit |

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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| | invagination. Epsin 2a, and 2b are splicing variants of epsin 2, which is associated with Clathrin-mediated endocytosis and are enriched in the brain in the peri-Golgi region.<br>**Function:** Plays a role in the formation of clathrin-coated invaginations and endocytosis.<br>**Subunit:** Binds EPS15 (By similarity). Binds AP-2 and clathrin.<br>**Subcellular Location:** Cytoplasm. Cytoplasmic vesicle; clathrin-coated vesicle. In punctate structures throughout the cell, associated with clathrin-coated vesicles, and particularly concentrated in the region of the Golgi complex.<br>**Tissue Specificity:** Highest expression is found in brain. Detected at lower levels in lung and liver.<br>**Post-translational modifications:** Ubiquitinated.<br>**Similarity:** Belongs to the epsin family.<br>Contains 1 ENTH (epsin N-terminal homology) domain.<br>Contains 2 UIM (ubiquitin-interacting motif) repeats.<br>**Database links:**<br>**Entrez Gene:** 22905 Human<br>**Entrez Gene:** 13855 Mouse<br>**Entrez Gene:** 60443 Rat<br>Omim: 607263 Human<br>**SwissProt:** O95208 Human<br>**SwissProt:** Q8CHU3 Mouse<br>**SwissProt:** Q9Z1Z3 Rat<br>**Unigene:** 309467 Human<br>**Unigene:** 139695 Mouse<br>**Unigene:** 436466 Mouse<br>**Unigene:** 44273 Rat<br>Important<br>**Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications. |