

DESCRIPTION

| | |
|---------------------------|---|
| Species Reactivity | Human |
| Specificity | Detects human EMMPRIN/CD147 in direct ELISAs and Western blots. In direct ELISAs and Western blots, no cross-reactivity with recombinant mouse EMMPRIN is observed. |
| Source | Monoclonal Mouse IgG _{2B} Clone # 109403 |
| Purification | Protein A or G purified from hybridoma culture supernatant |
| Immunogen | Mouse myeloma cell line NS0-derived recombinant human EMMPRIN/CD147 Ala22-His205 Accession # Q54A51 |
| Formulation | Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS. |

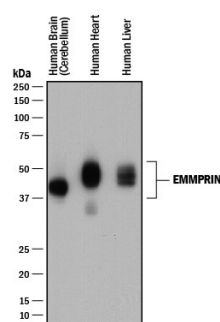
APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the [Technical Information](#) section on our website.

| | Recommended Concentration | Sample |
|---------------------------|--|-----------|
| Western Blot | 0.2 µg/mL | See Below |
| Knockout Validated | EMMPRIN/CD147 is specifically detected in HEK293T human embryonic kidney parental cell line but is not detectable in EMMPRIN/CD147 knockout HEK293T cell line. | |
| ELISA | <p>This antibody functions as an ELISA capture antibody when paired with Goat Anti-Human EMMPRIN/CD147 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF972).</p> <p>This product is intended for assay development on various assay platforms requiring antibody pairs. We recommend the Human EMMPRIN/CD147 DuoSet ELISA Kit (Catalog # DY972) for convenient development of a sandwich ELISA or the Human EMMPRIN/CD147 Quantikine ELISA Kit (Catalog # DEMP00) for a complete optimized ELISA.</p> | |

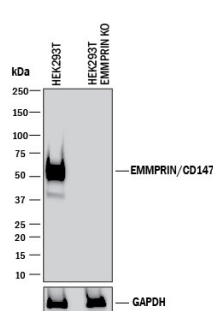
DATA

Western Blot

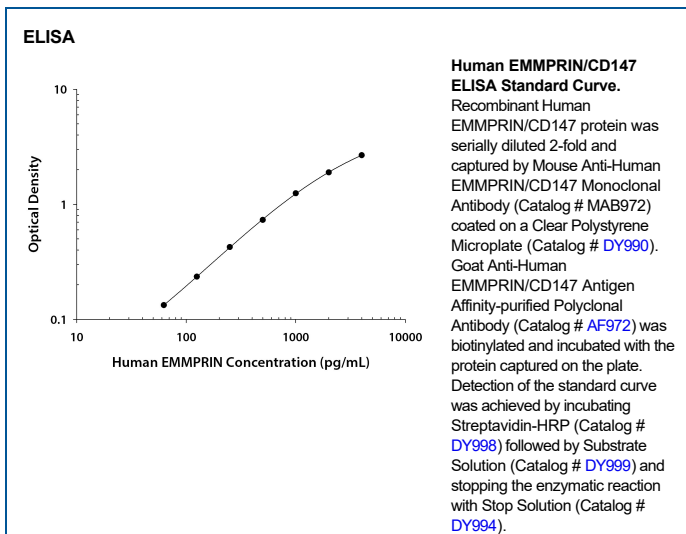


Detection of Human EMMPRIN/CD147 by Western Blot. Western blot shows lysates of human brain (cerebellum) tissue, human heart tissue, and human liver tissue. PVDF membrane was probed with 0.2 µg/mL of Mouse Anti-Human EMMPRIN/CD147 Monoclonal Antibody (Catalog # MAB972) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # [HAF018](#)). A specific band was detected for EMMPRIN/CD147 at approximately 40-60 kDa (as indicated). This experiment was conducted under reducing conditions and using [Immunoblot Buffer Group 1](#).

Knockout Validated



Western Blot Shows Human EMMPRIN/CD147 Specificity by Using Knockout Cell Line. Western blot shows lysates of HEK293T human embryonic kidney parental cell line and EMMPRIN/CD147 knockout HEK293T cell line (KO). PVDF membrane was probed with 0.2 µg/mL of Mouse Anti-Human EMMPRIN/CD147 Monoclonal Antibody (Catalog # MAB972) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # [HAF018](#)). A specific band was detected for EMMPRIN/CD147 at approximately 51 kDa (as indicated) in the parental HEK293T cell line, but is not detectable in knockout HEK293T cell line. GAPDH (Catalog # [MAB5718](#)) is shown as a loading control. This experiment was conducted under reducing conditions and using [Immunoblot Buffer Group 1](#).



PREPARATION AND STORAGE

| | |
|--------------------------------|---|
| Reconstitution | Reconstitute at 0.5 mg/mL in sterile PBS. |
| Shipping | The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C |
| Stability & Storage | <p>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</p> <ul style="list-style-type: none"> • 12 months from date of receipt, -20 to -70 °C as supplied. • 1 month, 2 to 8 °C under sterile conditions after reconstitution. • 6 months, -20 to -70 °C under sterile conditions after reconstitution. |

BACKGROUND

EMMPRIIN, also known as basigin and CD147, is a type I membrane protein belonging to the immunoglobulin superfamily. It is a multifunctional protein involved in reproduction, neural function, inflammation and tumor invasion.