

## **Product Description**

Pioneering GTPase and Oncogene Product Development since 2010

## **EMP2 RABBIT PAB**

Cat.#: S220521

**Product Name:** Anti-EMP2 Rabbit Polyclonal Antibody

Synonyms: XMP

**Target:** EMP2 (epithelial membrane protein 2) **UNIPROT ID:** P54851 (Gene Accession - NP\_001415)

**Background:** EMP-2 (epithelial membrane protein 2), also known as XMP, is a 167 amino acid multi-pass membrane protein that contains four-transmembrane domains and belongs to the GAS3/PMP22 (growth arrest-specific-3/peripheral myelin protein-22) family. It has been associated with various functions including endocytosis, cell signaling, cell proliferation, cell migration, cell adhesion, cell death, cholesterol homeostasis, urinary albumin excretion, and embryo implantation. Localized to lipid raft domains in the plasma membrane, EMP-2 regulates the expression of several target proteins and is necessary for blastocyst implantation in the uterine endometrium. Specifically, EMP-2 mediates blastocyst implantation by controlling the cell membrane expression of MHC and glycosylphosphatidylinositol-anchored proteins, as well as Integrins and caveolin-1. In adult tissues, EMP-2 is expressed in heart, lung, ovary and intestine, while fetal expression is highest in kidney, brain and liver. Overexpression of EMP-2 is associated with endometrial adenocarcinoma, suggesting a possible role for EMP-2 in tumorigenesis.

**Immunogen:** Synthetic peptide of human EMP2

**Applications:** ELISA, IHC

Recommended Dilutions: IHC: 50-200; ELISA: 2000-5000

**Host Species:** Rabbit

Clonality: Rabbit Polyclonal

**Isotype:** Immunogen-specific rabbit IgG **Purification:** Antigen affinity purification

Species Reactivity: Human

Constituents: PBS (without Mg2+ and Ca2+), pH 7.4, 150 mM NaCl, 0.05% Sodium Azide and 40%

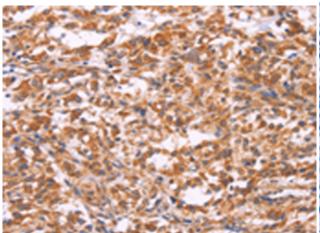
glycerol

Research Areas: Signal Transduction, Cancer, Developmental Biology Storage & Shipping: Store at -20°C. Avoid repeated freezing and thawing

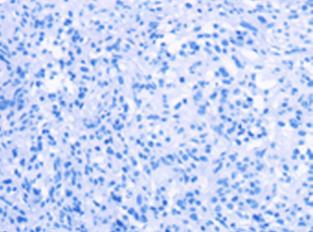


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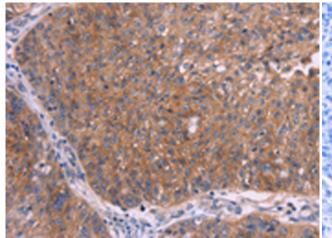
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Immunohistochemistry analysis of paraffin embedded Human thyroid cancer tissue using 220521(EMP2 Antibody) at a dilution of 1/30(Cytoplasm).



In comparision with the IHC on the left, the same paraffin-embedded Human thyroid cancer tissue is first treated with the synthetic peptide and then with 220521(Anti-EMP2 Antibody) at dilution 1/30.



The image on the left is immunohistochemistry of paraffinembedded Human ovarian cancer tissue using 220521(Anti-EMP2 Antibody) at a dilution of 1/30.

In comparision with the IHC on the left, the same paraffin-embedded Human ovarian cancer tissue is first treated with synthetic peptide and then with D261644(Anti-EMP2 Antibody) at dilution 1/30.