

ZP2 polyclonal antibody

Catalog: BS61487

Host: Rabbit

Reactivity: Human, Mouse, Rat

BackGround:

The mammalian zona pellucida is composed of three major glycoproteins, ZP1, ZP2 and ZP3. ZP2 has been implicated as a secondary sperm receptor that binds sperm only after the induction of the sperm acrosome reaction. Both ZP2 and ZP3 are modified by the zona reaction; ZP2 undergoes a proteolytic cleavage and ZP3 loses its ability to induce the acrosome reaction and its sperm receptor activity. During the process of fertilization, the initial interaction between male and female gametes is mediated by a sperm receptor, ZP3, which resides in the extracellular glycoprotein matrix (zona pellucida) surrounding the oocyte. The sperm receptor function of the ZP3 molecule plays a key role in the first step of the fertilization process. Following sperm-oocyte binding, ZP3 triggers the sperm acrosome reaction that releases the protein machinery, enabling a spermatozoon to penetrate the zona pellucida.

Product:

1 mg/ml in Phosphate buffered saline (PBS) with 0.05% sodium azide, approx. pH 7.3.

Molecular Weight:

~ 82 kDa

Swiss-Prot:

Q05996

Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific im-

munogen and the purity is > 95% (by SDS-PAGE).

Applications:

WB: 1:500~1:1000

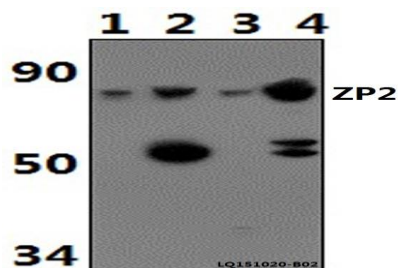
Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

Specificity:

ZP2 polyclonal antibody detects endogenous levels of ZP2 protein.

DATA:



Western blot (WB) analysis of ZP2 mAb at 1:500 dilution

Lane1:Hela whole cell lysate(40ug)

Lane2:H9C2 whole cell lysate(40ug) Lane3:RAW264.7 whole cell lysate(40ug) Lane4:MCF-7 whole cell lysate(40ug)

Note:

For research use only, not for use in diagnostic procedure.

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