

## Anti-ZP2 [IE3] Standard Size Ab00954-2.0

This chimeric mouse antibody was made using the variable domain sequences of the original Rat IgG2a format, for improved compatibility with existing reagents, assays and techniques.

**Isotype and Format:** Mouse IgG2a, Kappa

**Clone Number:** IE3

**Alternative Name(s) of Target:** Zona pellucida sperm-binding protein 2; Zona pellucida glycoprotein 2; ZP-2; Zp2; Zp-2; Zona pellucida protein A

**UniProt Accession Number of Target Protein:** P20239

**Published Application(s):** IP, NTRL, WB, IF, IHC

**Published Species Reactivity:** Mouse

**Immunogen:** Osbourne-Mendel rats were immunised with solubilised zonae pellucidae from DBA/2 mice. Splenocytes were obtained from immunised rats and fused with the SP2/2 murine myeloma cell line to generate hybridomas.

**Specificity:** IE3 reacts specifically with ZP2 (East & Dean, 1984), where the specific epitope (TIKVVGGYQVNIRVGDTTDDVRYKDDMYHFFC) is at the N-terminus. ZP2 is a glycoprotein which forms the zona pellucida, an extracellular matrix surrounding mammalian oocytes. These glycoproteins act as receptors for sperm and this recognition serves as a critical step of fertilisation.

**Application Notes:** IE3 was shown to react with ZP2 by immunoprecipitation and immunofluorescence staining of various mouse tissue sections (East & Dean, 1984; Avella et al, 2014). IE3 was also shown to neutralise ZP2 activity in vivo by causing transient infertility in female mice.

**Antibody First Published in:** East & Dean. Monoclonal antibodies as probes of the distribution of ZP-2, the major sulfated glycoprotein of the murine zona pellucida. J Cell Biol. 1984 Mar;98(3):795-800.

[PMID:6699085](#)

**Note on publication:** Describes the generation of five mAbs directed against the mouse zona pellucida, and the use of these mAbs in characterisation of the zona pellucida extracellular matrix.

## Product Form

**Size:** 200 µg Purified antibody.

**Purification:** Protein A affinity purified

**Supplied In:** PBS with 0.02% Proclin 300.

**Storage Recommendation:** Store at 4°C for up to 3 months. For longer storage, aliquot and store at -

20°C.

**Concentration:** 1 mg/ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.