

## Product datasheet for **EA100155**

### Mouse IgE ELISA Kit

#### Product data:

Product Type:	ELISA Kits
Description:	Mouse IgE ELISA Kit (1 x 48 wells)
Size:	1 x 48 wells
Format:	48-well strip plate
Assay Type:	Solid Phase Sandwich ELISA
Assay Length:	3 hour
Signal:	Colorimetric
Curve Range:	0.31 -20.0 ng/mL
Sample Type:	Cell culture supernatant, serum, plasma (EDTA, citrate, heparin)
Sample Volume:	20 uL
Specificity:	Natural and recombinant MouseIgE Ligand
Sensitivity:	156pg/mL
Reactivity:	Mouse
Interference:	No significant interference observed with available related molecules.
Components:	<ul style="list-style-type: none"><li>• Aluminium pouches with a Microwell Plate coated with antibody to mouse IgE (8X12)</li><li>• 2 vials mouse IgE Standard lyophilized, 20000 pg/ml upon reconstitution</li><li>• 2 vials concentrated Biotin-Conjugate anti-mouse IgE antibody</li><li>• 2 vials Streptavidin-HRP solution</li><li>• 1 bottle Standard /sample Diluent</li><li>• 1 bottle Biotin-Conjugate antibody Diluent</li><li>• 1 bottle Streptavidin-HRP Diluent</li><li>• 1 bottle Wash Buffer Concentrate 20x (PBS with 1% Tween-20)</li><li>• 1 vial Substrate Solution</li><li>• 1 vial Stop Solution</li><li>• 4 pieces Adhesive Films</li><li>• package insert</li></ul>



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**Background:** There are five classes of mammalian immunoglobulins: IgA, IgD, IgE, IgG, and IgM. In mice, the IgG class is further divided into four subclasses: IgG1, IgG2a/ IgG2c (strain specific), IgG2b, and IgG3. The general immunoglobulin structure is described as two heavy and two light chain (H2L2) polypeptides linked together by disulfide bridges of cysteine residues. Mouse IgE, also known as reaginic antibody, exists in serum as a 4-chain monomer of 185-200 kDa. Like IgM, the IgE monomers contain a fourth constant region domain. Serum concentrations of IgE are reported to be >10 ug/ml. IgE is cytolytic for mast cells, where it binds to the Fc $\epsilon$ RI receptor and is able to mediate the response of granular and lipid mediators of inflammation, including the PCA reaction. The IgE class switch is induced by IL-4 as part of the Th2 response.

**Gene Symbol:** Ighe

**Gene ID:** 380792