

**Recombinant Mouse PLA2G12B / PLA2G13 Protein (His tag)**

**Cat.NO.: TP06388**

3th Edition

**Synonyms:**2010002E04Rik;Fksg71;h1b218;Pla2g13

**Description:**Group XIIB secretory phospholipase A2-like protein, also known as Group XIII secretory phospholipase A2-like protein, GXIII sPLA2-like, sPLA2-GXIIB, GXIIB, PLA2G13 and PLA2G12B, is a secreted protein which belongs to the phospholipase A2 family. PLA2G12B / PLA2G13 is strong expression in liver, small intestine and kidney. Mammalian secretory phospholipase A2s ( sPLA2s ) form a family of structurally related enzymes that are involved in a variety of physiological and pathological processes via the release of arachidonic acid from membrane phospholipids or the binding to specific membrane receptors. Phospholipases A2 / PLA2 are enzymes that release fatty acids from the second carbon group of glycerol. This particular phospholipase specifically recognizes the sn-2 acyl bond of phospholipids and catalytically hydrolyzes the bond releasing arachidonic acid and lysophospholipids. Phospholipases A2 / PLA2 are commonly found in mammalian tissues as well as insect and snake venom. Venom from both snakes and insects is largely composed of melittin, which is a stimulant of Phospholipases A2 / PLA2. Due to the increased presence and activity of Phospholipases A2 / PLA2 resulting from a snake or insect bite, arachidonic acid is released from the phospholipid membrane disproportionately. As a result, inflammation and pain occur at the site.

**Form:**PBS

**Molecular Weight:**21 kDa

**Sequences:**Met 1-Leu 195

**Purity:**> 95% by HPLC

**Concentration:**

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

**Storage:**Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.