

Catalog No. LF-MA0010

MONOCLONAL ANTIBODY



## Anti-Catalase (11A1)

**Background :** Catalase is a homotetrameric heme-containing enzyme present within the matrix of all peroxisomes. It carries out a dismutation reaction in which hydrogen peroxide is converted to water and oxygen. Human catalase has the last four amino acids (-KANL) at the extreme C-terminus for peroxisome targeting. The monomer of human catalase is 61.3 kDa in molecular size. Catalase has been implicated as an important factor in inflammation, mutagenesis, prevention of apoptosis, and stimulation of a wide spectrum of tumors. Loss of catalase leads to the human genetic disease, acatalasemia, or Takahara's disease (1).

**Immunogen :** Recombinant human protein purified from *E.coli*

**Host :** Mouse

**Clone number :** 11A1

**Isotype :** IgG2a, k

**Size :** 100ul

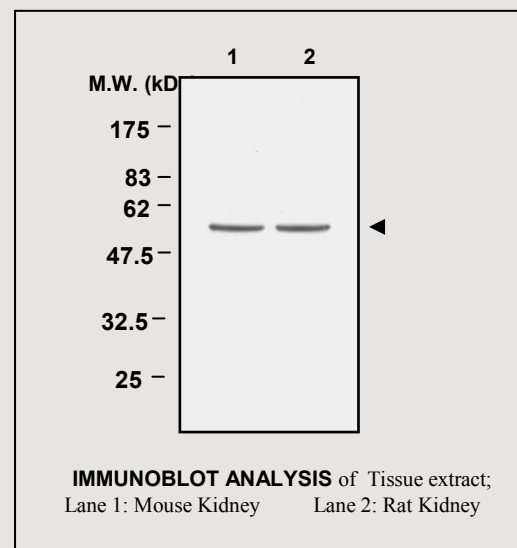
**Composition :** PBS containing 50% glycerol

**Positive control :** Mouse kidney extract

**Storage :** Store for 1 year at -20°C from date of shipment

### Species cross reactivity

Human	Mouse	Rat
+	+	+



### Applications :

Western Blotting (1:100-1000)

◆ Recommended starting dilution (1:100)

### Background Reference :

1) Tainer, J. A. et al. (2000) J Mol Biol. 296(1):295-309.

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