

## HPRT polyclonal antibody

Catalog: BS90662

Host: Rabbit

Reactivity: Human, Mouse, Rat, Zebrafish

### BackGround:

HPRT (hypoxanthine phosphoribosyltransferase 1), also known as HGPRT or HPRT1, is a 218 amino acid cytoplasmic protein that belongs to the purine/pyrimidine phosphoribosyltransferase family. Involved in purine metabolism, HPRT functions as a purine salvage enzyme that catalyzes the conversion of hypoxanthine and guanine to their respective mononucleotides (inosine monophosphate and guanosine monophosphate, respectively). HPRT exists as a homotetramer that can bind two magnesium ions as cofactors. Defects in the gene encoding HPRT are the cause of gout and Lesch-Nyhan syndrome (LNS), both of which are characterized by a partial or complete lack of HPRT enzymatic activity. While a partial loss of HPRT enzymatic activity results in a buildup of uric acid (gout), a total loss of enzymatic activity results in hyperuricaemia, mental retardation, choreoathetosis and compulsive self-mutilation, all of which are symptoms associated with LNS. The severity of these diseases suggests an essential role for HPRT in purine metabolism.

### Product:

Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

### Molecular Weight:

25 kDa

### Swiss-Prot:

P00492(Human) P00493(Mouse) P27605(Rat)

### Purification&Purity:

ProA affinity purified

### Applications:

WB:1:500-1:2,000

IHC:1:50-1:200

IP:1:10-1:50

### Storage&Stability:

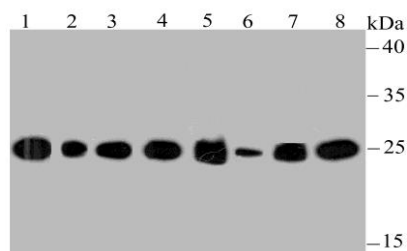
Store at +4 °C after thawing. Aliquot store at -20 °C or

-80 °C. Avoid repeated freeze / thaw cycles.

### Specificity:

HPRT polyclonal antibody detects endogenous levels of HPRT protein.

### DATA:



Western blot analysis of HPRT on different lysates using anti-HPRT antibody at 1/500 dilution.

Positive control:

Lane 1: Hela

Lane 2: A431

Lane 3: MCF-7

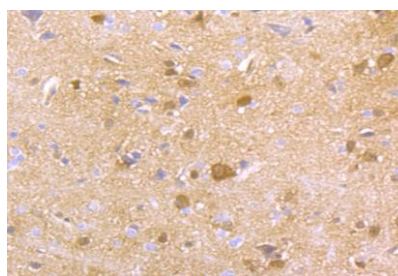
Lane 4: 293

Lane 5: Rat kidney

Lane 6: Rat brain

Lane 7: Mouse testis

Lane 8: Mouse colon



Immunohistochemical analysis of paraffin-embedded rat brain tissue using anti-HPRT antibody. Counter stained with hematoxylin.

### Note:

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

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## PRODUCT DATA SHEET

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