

GST- π Recombinant Rabbit Monoclonal Antibody Product Datasheet

Catalog# BX50329

Clone# BP6305

Predicted Molecular Wt: 23kDa
Species Cross-reactivity: Human
Applications: IHC-P

Purity: ProA affinity purified IgG
Form: Liquid
Swissprot ID: P09211

Background:

Glutathione S-transferases (GSTs) are a family of enzymes that play an important role in detoxification by catalyzing the conjugation of many hydrophobic and electrophilic compounds with reduced glutathione. Based on their biochemical, immunologic and structural properties, the soluble GSTs are categorized into 4 main classes: alpha, mu, pi and theta. This GST family member is a polymorphic gene encoding active, functionally different GSTP1 variant proteins that are thought to function in xenobiotic metabolism and play a role in susceptibility to cancer and other diseases.

Glutathione-S-transferase (GST- π) is widely present in the cytosol and mitochondria of organs throughout the human body, mainly catalysing the combination of GSH with a wide range of electrophilic substances to form GS-X, which is then excreted out of the cell to achieve detoxification. GST- π is highly expressed in a wide range of tumours and has been associated with tumour therapeutic resistance (adriamycin, cisplatin, azathioprine, cyclophosphamide and tumocortin, among others) and is more clinically important for determining whether tumour cells have developed resistance, as is the case with P-gp and Topo II, it is more clinically significant to determine whether the tumour cells are drug-resistant or not.

Subcellular location:

Nucleus, Cytoplasm

Recommended Method:

Heat induced epitope retrieval with Tris-EDTA buffer (pH 9.0), primary antibody incubate at RT (18°C-25°C) for 30 minutes.

Immunogen:

Synthetic peptide. This information is proprietary to BioLynx.

Storage Buffer:

PBS 59%, Sodium azide 0.01%, Glycerol 40%, BSA 0.05%.

Storage Conditions:

-25°C to -18°C

Shipment Instructions:

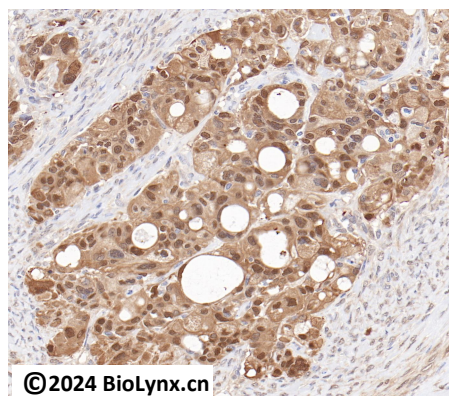
Shipped on blue ice. Upon delivery store at -25°C to -18°C. Avoid freeze / thaw cycles.

Recommended Dilution:

IHC-P: 1:100-1:200

Background References:

1. E Bejarano et al.(2023) Redox Biol 2023;66:102869.
2. Makoto Asahina et al.(2021) Mol Brain 2021;14(1):91.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Ovarian cancer labelling GST- π with BP6305.

Product QC'd by:



For research use only. Not for use in diagnostic or therapeutic applications.