

# Metabolism

Your Expertise

Our Antibodies

Accelerated Discovery

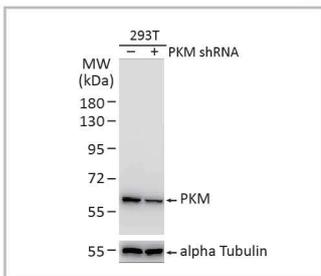


Metabolism is the set of chemical reactions involved in maintaining the living state of cells and the organism. These chemical reactions are organized into metabolic pathways and can be divided into two categories: catabolism, the breakdown of organic molecules such as carbohydrates, lipids and proteins with the release of energy, and anabolism, the synthesis of complex molecules such as proteins and nucleic acids from simpler compounds that generally requires energy. Metabolic pathways are evolutionarily highly conserved between species. Disorders of these processes may result from nutritional deficiencies, disease in metabolic organs such as the liver and pancreas, or genetic mutations. The human and economic impact of conditions such as diabetes mellitus, hyperlipidemia, and osteoporosis is staggering, so additional research is essential for developing preventative approaches in conjunction with therapeutic agents that can minimize the long-term effects of these progressive maladies.

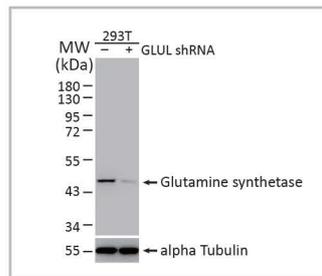
## Highlighted Products

Recombinant Citation Support KO/KD Validation

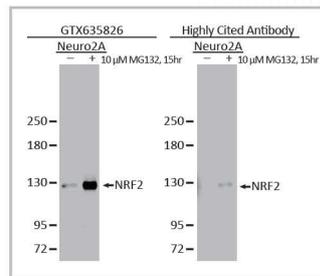
Comparable Abs Orthogonal Validation Protein Overexpression



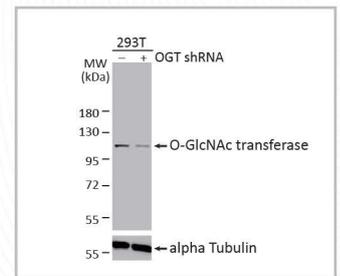
**PKM antibody (GTX107977)**



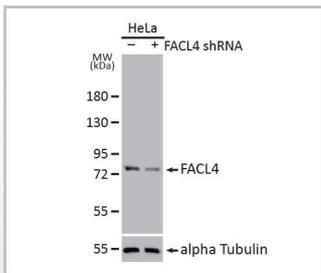
**Glutamine synthetase antibody [HL2283] (GTX638336)**



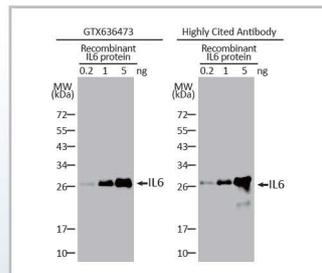
**NRF2 antibody [HL1021] (GTX635826)**



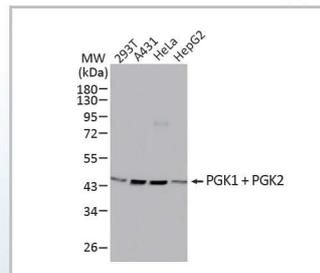
**O-GlcNAc transferase antibody [HL1642] (GTX637223)**



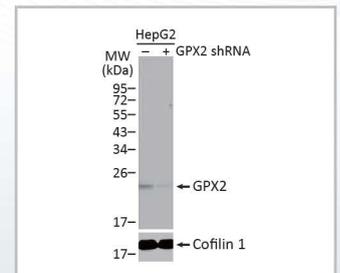
**FACL4 antibody [HL229] (GTX635616)**



**IL6 antibody [HL1168] (GTX636473)**



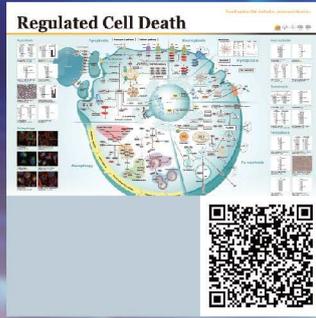
**PGK1 + PGK2 antibody [HL1775] (GTX637427)**



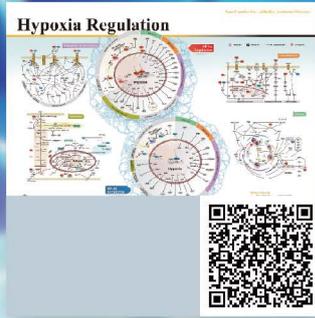
**GPX2 antibody [HL125] (GTX635477)**



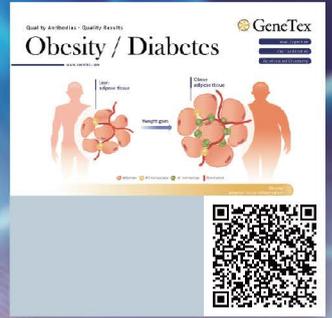
Poster - Mitochondria Metabolism



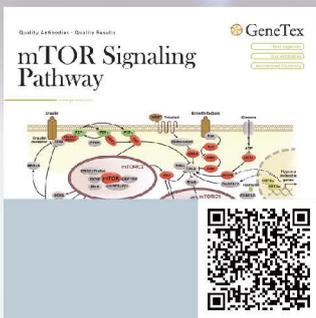
Poster - Regulated Cell Death



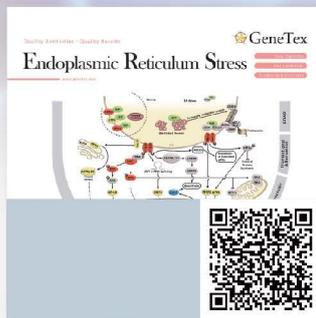
Poster - Hypoxia Regulation



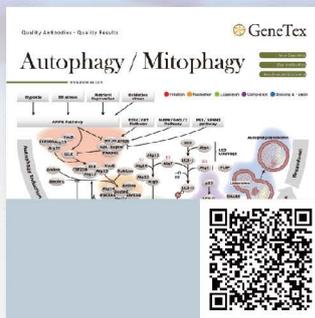
Flyer - Obesity / Diabetes



Flyer - mTOR Signaling Pathway



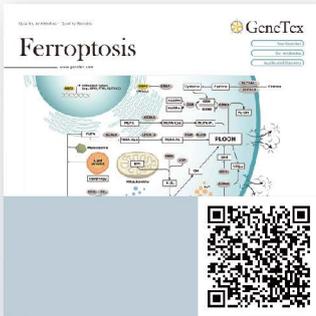
Flyer - ER Stress



Flyer - Autophagy / Mitophagy



Flyer - Cell Death



Flyer - Ferroptosis



Flyer - Epigenetics Histone Modification



Flyer - Pancreatic Cancer Tumor Markers



Flyer - Tumor Immunohistochemistry



Flyer - Loading Controls



Flyer - IHC Validated Recombinant Antibodies



Brochure - Recombinant Antibodies



Brochure - Metabolic Pathways

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