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Normal Human Brain Tissue Lysate

Catalog No.	PX335	**Quantity:**	100 µg

Source: Human brain tissue, specify region.

Description: Human tissue lysates are ideal for biomarker identification and screening, antibody detection and characterization, protein expression and interaction studies, ligand binding. ELISA, immunoprecipitation, 1D and 2D gel electrophoresis and Western blotting. Tissues and cell lines are flash frozen within 5-10 minutes of removal. Widely accepted buffers are used to fractionate soluble (modified RIPA buffer) and insoluble (Urea-based buffer) proteins. All human materials are obtained under strict bioethical standards using IRB-approved protocols that ensure patient confidentiality, safety and informed consent.

Preparation: Lysate is prepared from minced frozen tissue homogenized (1:9 w/v ratio of tissue to extraction buffer) in cold modified RIPA buffer (150 mM sodium chloride, 50 mM Tris-HCl, pH 7.4) 1 mM EDTA, 1 mM PMSF, 0.1% Na deoxycholate, 0.1% SDS, 5 µg/ml aprotinin, 5 µg/ml leupeptin, and 5 µg/ml Pepstatin A. Tissue and cell debris (insoluble proteins, extra-cellular matrix, any intact nuclei, lysosomes and mitochondria) were removed by centrifugation at 20,000 x g. The supernatant, which contains soluble proteins (cytosolic, nuclear and membrane) proteins, ER membranes and ribosomes, is saved as the tissue lysate 'soluble fraction'. Protein concentration was determined with Bio-Rad protein assay. (A urea/thiourea extract of the the pellet resulting from centrifugation,is available for an additional cost, called the 'insoluble fraction' lysate,)

Applications These lysates have not been subjected to heat denaturation or reducing conditions. This allows the tissue or cell lysate to be used in a variety of applications; to study protein-protein interaction, ligand binding, ELISA, immunoprecipitation, 1D and 2D gel electrophoresis, and Western blotting for the detection of specific protein targets. **For use in 1D and 2D gel electrophoresis, the addition of a denaturing gel loading buffer with reducing agents may be required.**

Donor ID: Age, gender, race specified.

Concentration: 2 mg/ml

Formulation: Tissue lysate is supplied frozen in modified RIPA buffer containing 1 mM EDTA, 1 mM PMSF, 0.1% Na deoxycholate, 0.1% SDS, 5 µg/ml aprotinin, 5 µg/ml leupeptin, and 5 µg/ml Pepstatin A. **Centrifuge vial before use.**

Storage & Stability: Store at -80°C for up to 1 year. **Avoid repeated freeze-thaw cycles.**

Infectious Disease Statement: This material has been tested by accepted techniques and has been found to be negative for HBsAg, HIV 1/2, and HCV.

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