

# Product Datasheet

## Human Breast Tissue Lysate (Adult Tumor) NBP2-27882

Unit Size: 0.1 mg

Store at -80C. Avoid freeze-thaw cycles.

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**NBP2-27882****Human Breast Tissue Lysate (Adult Tumor)**

<b>Product Information</b>	
<b>Unit Size</b>	0.1 mg
<b>Concentration</b>	1 mg/ml
<b>Storage</b>	Store at -80C. Avoid freeze-thaw cycles.
<b>Product Description</b>	
<b>Species</b>	Human
<b>Specificity/Sensitivity</b>	Tissue: Breast Diagnosis: Invasive ductal carcinoma Grade: 2 Stage: IIIB TNM: T2N1M0 Sex: Female Age: 36 Gross findings: Tumor size 4 x 4 x 3 cm. Cut section hard and white/gray. Ipsilateral axillary lymph nodes examined: 7 Microscopic findings: Cancer in surgical margin of section: Negative Multifocal carcinoma: Negative Pectoral muscular/facia invasion: Negative Chest wall invasion: Negative Breast skin dermal invasion only: Negative Skin invasion with ulceration: Negative Dermal lymphatic channel invasion: Negative Lymphatic and/or blood vessel invasion: Negative Tumor necrosis: Positive Number of nodes positive: 4/7 Tubule formation: 3 Nuclear pleomorphism: 3 Mitotic activity: 1 Lymphocytic response: Positive
<b>Immunogen</b>	Clinical Tissue Human Breast Tumor Tissue Lysate
<b>Preparation Method</b>	Tissue specimens are homogenized in modified RIPA buffer to obtain the soluble proteins, and centrifuged to clarify. The pellet was further extracted with a second buffer to obtain the less soluble protein fraction. The lysate solution may appear turbid at cold temperatures due to insolubility of buffer components. The solution should clear upon warming to room temperature.
<b>Notes</b>	The vial is provided with a 10% overfill. Maximum recovery can be obtained by centrifuging the vial briefly to collect any solution on the cap and tube sides.
<b>Lysate Type</b>	Tissue
<b>Lysate Tissue</b>	Breast
<b>Lysate Tissue Condition</b>	Tumor
<b>Lysate Life Stage</b>	Adult
<b>Product Application Details</b>	

**Application Notes**

These lysates have not been subjected to denaturing 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. Buffer requirements for performing protein-protein interaction and ligand binding studies can vary significantly from RIPA buffer and may require modifications. In most cases, tissue lysates in RIPA buffer can be used, directly in standard ELISA and immunoprecipitation assays.

This material has tested negative for HbsAg, HIV 1/2, and HCV. Use **UNIVERSAL PRECAUTIONS** when handling. Human tissue derivatives must be treated as a potentially infectious agent and disposed of appropriately.



## Procedures

### Product Handling Protocol (NBP2-27882)

Tissue specimens are homogenized in modified RIPA buffer to obtain the soluble proteins, and centrifuged to clarify. The pellet was further extracted with a second buffer to obtain the less soluble protein fraction. The lysate solution may appear turbid at cold temperatures due to insolubility of buffer components. The solution should clear upon warming to room temperature.

Extraction 1: PBS, pH 7.4 1 ug/ml Aprotinin 1 mM NaF

Modified RIPA Buffer: 1 mM EDTA 1 ug/ml Pepstatin-A 0.1% SDS  
0.25% Na deoxycholate 1 ug/ml Leupeptin 1 mM PMSF  
1 mM Na<sub>3</sub>VO<sub>4</sub>

Extraction 2: PBS, pH 7.4, 5.0 M Urea, 2.0 M Thiourea, 50mM DTT, 0.1% SDS





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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Lysates are guaranteed for 6 months from date of receipt.

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