Hyaluronic Acid Binding Protein (HABP)

**Code Number:** 400762  
**Size:** 0.1mg/vial

**Source:** Bovine nasal cartilage  
**Country of Origin:** Australia

**Description:** Purified cartilage proteoglycans bind specifically to hyaluronate to form high-molecular weight aggregates in which many proteoglycans are bound to each hyaluronate chain. The proteoglycans bind by a specific site at one end of the protein backbone that is largely devoid of glycosaminoglycan chain (HA-binding region) and has a high affinity for a decaaccharide unit of hyaluronate. The link protein is an integral part of the aggregate structure and has been proposed to form additional bonds, by bridging the proteoglycan molecule and the hyaluronate chain, thereby increasing the strength of binding and giving a more stable aggregate structure (ternary complex). Purification of hyaluronic acid binding protein (HABP) from bovine nasal cartilage was performed in accordance with the modified method of E-Laurent et al. HABP gave 2-3 broad bands (70-80kDa, 45kDa and 40-45kDa) that can be bound specifically to hyaluronic acid and keratanase treatment HABP gave 2-3 broad bands (70kDa, 45kDa and 40-45kDa). This suggests that component (70-80kDa) of HABP may contain keratan sulfate and third link protein that are present in proteoglycan aggregate preparation.

**Postulated Model of HABP:**

![Postulated Model of HABP](image)

**Specifications:**

<table>
<thead>
<tr>
<th>Appearance</th>
<th>Lyophilized powder</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stabilizer</td>
<td>None</td>
</tr>
<tr>
<td>Preservative</td>
<td>None</td>
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<tr>
<td>Reconstitution Constituent</td>
<td>Dissolve the lyophilized powder with 200μL of distilled water. 3 molecular proteins that can be bound specifically to hyaluronic acid. 70-80kDa, 45kDa and 40-45kDa</td>
</tr>
</tbody>
</table>

**Application:** ELISA, Histochemistry

**Storage:** Store at -20°C until opened. Following reconstitution, aliquot and freeze (-20°C).
References:


Note: For in vitro research use only, not for diagnostic or therapeutic use. This product is not medical device.