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Product Data Sheet

***Biotinylated Hyaluronan binding protein(Biotin-HABP)***

***[recombinant]***

- Catalog No. :** HKD-BC41                      **Lot. No:** \*\*
- Quantity :** 200µL/vial ( 0.25mg/mL )
- Source :** Recombinant human versican G1 domain(rHABP) expressed in *E.coli*.
- Buffer :** Phosphate buffered saline pH7.4 , 10% glycerol
- Description :** Versican G1 domain bind specifically to hyaluronan and doesn't bind to other glycosaminoglycan,DNA.  
Versican G1 domain can use probe for hyaluronan detection.
- Characterization:** On SDS-PAGE commassie blue stained gel,the purified recombinant protein shows a band at 36.7kDa.Purity is greater than 95% by SDS-PAGE gel.
- Applications :** immunohistochemistry, ELISA  
The optimal dilution for specific application should be determined by the investigator.
- Storage :** Store vial at -20°C to -80°C. Avoid freeze / thaw cycles.
- References :**
1. Tengblad A. A comparative study of the binding of cartilage link protein and the hyaluronate-binding region of the cartilage proteoglycan to hyaluronate-substituted Sepharose gel. *Biochem J.* 1981 Nov1;199 (2) :297-305.
  2. Tengblad A. Quantitative analysis of hyaluronate in nanogram amounts. *Biochem J.* 1980 Jan 1;185 (1) :101-5.

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***For research and in vitro use only. Not for diagnostic or therapeutic work.***

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*: Biotinylated Hyaluronan binding protein*

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## ヒアルロン酸結合タンパク (rHABP)

コード	品名	包装	価格(税別)
BC40	HABP (recombinant) : Hyaluronan Binding Protein	50 $\mu$ g, 0.25mg/ml	*****円
BC41	Biotin-HABP (recombinant) : Biotinylated Hyaluronan Binding Protein	50 $\mu$ g, 0.25mg/ml	*****円

### 製品概要

本品は、ヒアルロン酸に特異的に結合するヒトVersican G1 domainを組換えタンパクとして大腸菌宿主により生産、精製したものです(以下略してrHABP)。他のGlycosaminoglycanやDNAには結合しないため、ヒアルロン酸を特異的に検出することができます。Biotin-HABP(recombinant)は、rHABPにビオチンを標識した製品です。

1. 構造原理 : (図1)
2. 分子量 : 36.7kDa (図2)
3. 精製方法 : refolding後にイオン交換精製
4. 保存 : 開封前は-20°C~-80°C保存、融解後長期保存する場合は小分け保存(-20°C以下)
5. 用途 : 組織染色(図3)、ELISAなど

図1. Versicanとヒアルロン酸の会合体

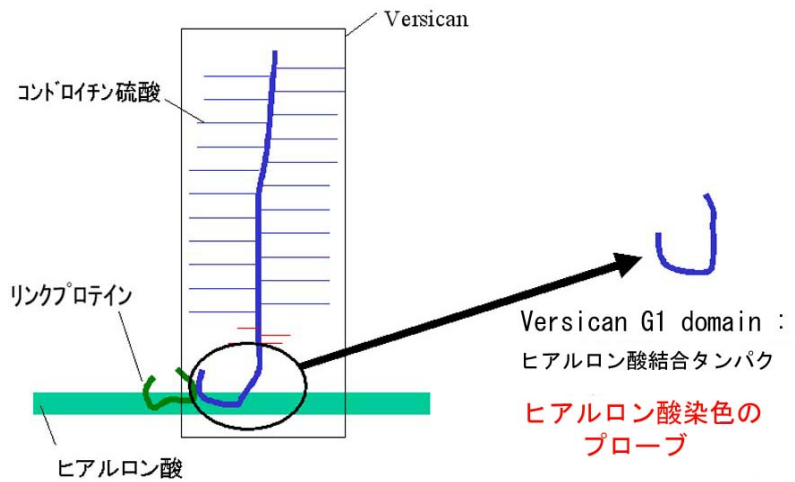


図2  
rHABPのSDS-PAGE

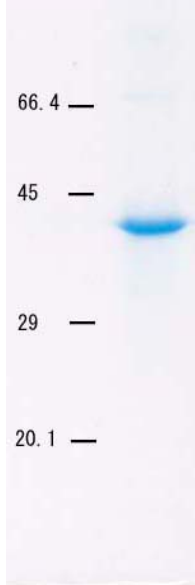


図3. ヒト皮膚三次元モデルにより組織染色例



### 参考文献

1. Tengblad A. A comparative study of the binding of cartilage link protein and the hyaluronate-binding region of the cartilage proteoglycan to hyaluronate-substituted Sepharose gel. *Biochem J.* 1981 Nov 1;199(2):297-305.
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