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YB91985Hu01

**Fatty Acid Binding Protein 5, Epidermal (FABP5)**

**Organism: Homo sapiens (Human)**

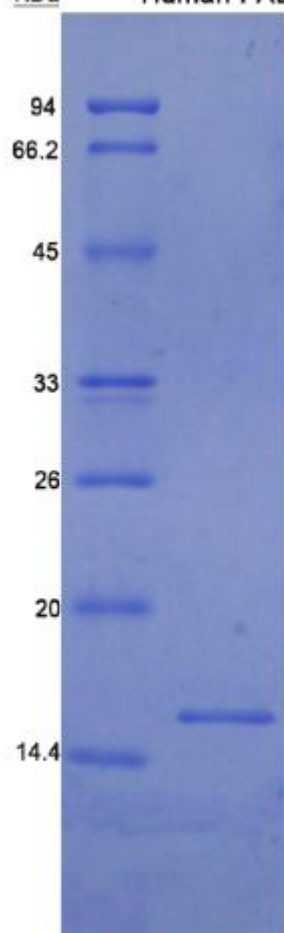
*Instruction manual*

FOR IN VITRO USE AND RESEARCH USE ONLY

NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES

1th Edition (Revised in February, 2012)

KDa Human FABP5



15% Tris-glycine SDS-PAGE

## [ DESCRIPTION ]

**Protein Names:** Fatty Acid Binding Protein 5, Epidermal

**Gene Names:** FABP5

**Size:** 100μg

**Source:** Recombinant

**Expression Host:** *E. coli*

**Function:** High specificity for fatty acids. Highest affinity for C18 chain length. Decreasing the chain length or introducing double bonds reduces the affinity. May be involved in keratinocyte differentiation.

**Subcellular Location:** Cytoplasm.

**Tissue Specificity:** Keratinocytes; highly expressed in psoriatic skin.

## [ PROPERTIES ]

**Residues:** Ala2~Glu135 (Accession # Q01469), with a N-terminal His-tag.

**Grade & Purity:** >97%, 16.3 kDa as determined by SDS-PAGE reducing conditions.

**Form & Buffer:** Supplied as lyophilized form in PBS, pH 7.4.

**Endotoxin Level:** <1.0 EU per 1μg (determined by the LAL method).

**Applications:** SDS-PAGE; WB; ELISA; IP.

(May be suitable for use in other assays to be determined by the end user.)



# Uschn

## Life Science Inc.

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Predicted Molecular Mass: 16.3 kDa

### [ PREPARATION ]

Reconstitute in PBS.

### [ STORAGE AND STABILITY ]

**Storage:** Store at 4°C for short term storage (1-2 weeks). Aliquot and store at -20°C or -80°C for long term storage. Avoid repeated freeze/thaw cycles.

**Valid period:** 12 months stored at -80°C.

### [ BACKGROUND ]

The target protein is fused with a His-tag and its sequence is listed below. The first Met is an initiator amino acid. Moreover, Gly and Ser are added to improve the flexibility of N-terminus at both ends of the His-tag, which will increase the chelating ability of the tag to Ni-Sepharose during purification.

MGHHHHHSGS-ATVQQLGR WRLVDSKGF D EYMKELGVI ALRKMAMAK PDCIITCDGK NLTIKTESTL  
KTTQFSCTLG EKFEETTADG RKTQTVCNFT DGALVQHGEW DGKESTITRK LKDGKLVVEC VMNNVTCTRI  
YEKVE

### [ REFERENCES ]

1. Madsen P.S., et al. (1992) J. Invest. Dermatol. 99:299-305.
2. Gutierrez-Gonzalez L.H., et al. (2002) Biochem. J. 364:725-737.
3. Hohoff C., et al. (1999) Biochemistry 38:12229-12239.



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