



# Recombinant Human Phakinin (BFSP2)

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| <b>Product Code</b>      | CSB-BP615697HU  |
| <b>Abbreviation</b>      | BFSP2   |
| <b>Storage</b>           | The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.<br>Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.  |
| <b>Uniprot No.</b>       | Q13515  |
| <b>Product Type</b>      | Recombinant Protein   |
| <b>Immunogen Species</b> | Homo sapiens (Human)  |
| <b>Purity</b>            | ≥85% (SDS-PAGE)   |
| <b>Sequence</b>          | MSERRVVVDL PTSASSSMPL QRRRASFRGP RSSSSLESPP ASRTNAMSGL<br>VRAPGVYVGT APSGCIGGLG ARVTRRALGI SSVFLQGLRS SGLATVPAPG<br>LERDHGAVED LGGCLVEYMA KVHALEQVSQ ELETQLRMHL ESKATRSGNW<br>GALRASWASS CQQVGEAVLE NARLMLQTET IQAGADDFKE RYENEQPFRK<br>AAEEEINSLY KVIDEANLTK MDLESQIESL KEELGSLSRN YEEDVKLLHK<br>QLAGCELEQM DAPIGTGLDD ILETIRIQWE RDVEKNRVEA GALLQAKQQA<br>EVAHMSQTQE EKLAALRVE LHNTSCQVQS LQAETESLRA LKRGLENTLH<br>DAKHWHDMEL QNLGAVVGRL EAELREIRAE AEQQQGERAH LLARKCQLQK<br>DVASYHALLD REESG   |
| <b>Source</b>            | Baculovirus   |
| <b>Target Names</b>      | BFSP2   |
| <b>Protein Names</b>     | Recommended name: Phakinin Alternative name(s): 49 kDa cytoskeletal protein<br>Beaded filament structural protein 2 Lens fiber cell beaded filament protein CP<br>47 Short name= CP47 Lens fiber cell beaded filament protein CP 49 Sh  |
| <b>Expression Region</b> | 1-415   |
| <b>Notes</b>             | Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.   |
| <b>Tag Info</b>          | Tag type will be determined during the manufacturing process.   |
| <b>Protein Length</b>    | full length protein   |
| <b>Target Details</b>    | More than 99% of the vertebrate ocular lens is comprised of terminally differentiated lens fiber cells. Two lens-specific intermediate filament-like proteins, the protein product of this gene (phakinin), and filensin, are expressed only after fiber cell differentiation has begun. Both proteins are found in a structurally unique cytoskeletal element that is referred to as the beaded filament (BF). Mutations in this gene have been associated with juvenile-onset, progressive cataracts and Dowling-Meara epidermolysis bullosa simplex. |
| <b>Reconstitution</b>    | We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final   |



concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

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