

KRT8 Protein, Human (Baculovirus, His-Myc)

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| Cat. No.: | HY-P72052 |
| Synonyms: | CARD2; CK 8; CK-8; CK8; CYK8; CYKER; Cytokeratin endo A; Cytokeratin-8; DreK8; EndoA; K2C8; K2C8_HUMAN; K8; Keratin 8; Keratin type II cytoskeletal 8 ; Keratin; type II cytoskeletal 8; Keratin-8; KO; Krt 2.8; KRT8; MGC118110; MGC174782; MGC53564; MGC85764; sb:cb186; Type-II keratin Kb8 |
| Species: | Human |
| Source: | Sf9 insect cells |
| Accession: | P05787 (M1-K483) |
| Gene ID: | 3856 |
| Molecular Weight: | Approximately 57.6 kDa |

PROPERTIES

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| AA Sequence | <pre> MSIRVTQKSY KVSTSGPRAF SSRSYTS GPG SRISSSSFSR VGS SNFRGGL GGGYGGASGM GGITAVTVNQ SLLSPLVLEV DPNIQAVRTQ EKEQIKTLNN KFASFIDKVR FLEQQNKMLE TKWSLLQQQK TARSNMDNMF ESYINNLRRQ LETLGQEKLK LEAELGNMQG LVEDFKNKYE DEINKRTEME NEFVLIKKDV DEAYMNKVEL ESRLEGLTDE INFLRQLYEE EIRELQSQIS DTSVVL SMDN SRSLDMSII AEVKAQYEDI ANRSRAEAES MYQIKY EELQ SLAGKHGDDL RRTKTEISEM NRNISRLQAE IEGLKGQRAS LEAAIADAEQ RGE LAIKDAN AKLSELEAAL QRAKQDMARQ LREYQELMNV KLALDIEIAT YRKLLLEGEE S RLESGMQNMS IHTKTTSGYA GGLSSAYGGL TSPGLSYS LG SSFSGSAGSS SFSRTSSSRA VVVKKIETRD GKLVSESSDV LPK </pre> |
| Appearance | Lyophilized powder. |
| Formulation | Lyophilized from a 0.2 µm sterile filtered PBS, 6% Trehalose, pH 7.4. |
| Endotoxin Level | <1 EU/µg, determined by LAL method. |
| Reconstitution | It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. |
| Storage & Stability | Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage. |
| Shipping | Room temperature in continental US; may vary elsewhere. |

DESCRIPTION

Background

The KRT8 protein, in conjunction with KRT19, plays a crucial role in connecting the contractile apparatus to dystrophin at the costameres of striated muscle. This heterotetramer consists of two type I and two type II keratins and forms a heterodimer with KRT18. Additionally, KRT8 associates with KRT20 and interacts with PLEC isoform 1C when in a heterodimer with KRT18. It forms complexes with several other proteins, including PNN, DMD (when associated with KRT19), TCHP, APEX1, GPER1, and EPPK1. Furthermore, KRT8 interacts with the desmosomal proteins PKP1 and PKP2. These diverse protein interactions highlight the multifaceted role of KRT8 in contributing to the structural integrity and functional dynamics of the cellular cytoskeleton in various cellular contexts.

Caution: Product has not been fully validated for medical applications. For research use only.

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