

## TLR3 Protein, Mouse (681a.a, HEK293, His)

Cat. No.:	HY-P78362
Synonyms:	TLR3; CD283; IIAE2
Species:	Mouse
Source:	HEK293
Accession:	Q99MB1 (T25-L705)
Gene ID:	142980
Molecular Weight:	85-110 kDa

### PROPERTIES

Appearance	Solution.
Formulation	Supplied as a 0.22 µm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

### DESCRIPTION

#### Background

TLR3 protein serves as a key component in both innate and adaptive immunity, playing a pivotal role in the host immune response against pathogens by recognizing specific molecular patterns associated with microorganisms. Activated by double-stranded RNA, a characteristic feature of viral infection, TLR3 functions through the adapter TRIF/TICAM1, leading to NF-kappa-B activation, nuclear translocation of IRF3, cytokine secretion, and initiation of the inflammatory response. TLR3 exists as a monomer and homodimer, with ligand-binding triggering dimerization. The signaling unit comprises one approximately 40 bp ds-RNA and two TLR3 molecules, requiring lateral clustering of signaling units along the ds-RNA ligand for effective signal transduction. Interaction with UNC93B1, SRC, and TICAM1, particularly in response to poly(I:C), contributes to its regulatory functions, highlighting the intricate molecular mechanisms involved in TLR3-mediated immune responses.

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

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