

Akansha^{1,2}, Janendra K Batra² and Naveen Arora¹



IGB
INSTITUTE OF GENOMICS
& INTEGRATIVE BIOLOGY
Genomics Knowledge Partner

MPSMLIPLTLLLSFTFSHATAMSIINYSENEVMDMYEWLVKHRKVYNGLDEKEKRFQVKDNLGFIQDHNAQNNTYTLGLNKFA

B-cell Epitope 1

DITNKEYRAMYLGRTRDAKRRVMKTQNTGHRYYNSGDQLPVHV**DWRLKGAVGPIKDQGCNC**GSCWAFSTVAAEVGINNIVTGE

B-cell Epitope 2 T-cell Epitope 1 B-cell Epitope 3

FVSL**SEQELVDCDRE**YDEGCN**GLMDYAFQ**FIQNGGIDTE**EDYPYQGIDGTCDETKK**TKVQIDGYEDVPSNNENALKKA**VS**HQ

T-cell Epitope 2

PVSVAIEASGRALQLYQSGVFTGCKGTALDHGVVVVGYGTENGVDYWLVRNSWGTGWGEDGYFKMERNVRSTSEGGCKGIAMDC

T-cell Epitope 3

SYPV**KYGLNSAV****PSSVYES**TEASISSA

- Four B & T-cell Epitopes identified and validated by *in-silico* approach.
- B-cell epitopes showed allergenic properties and potential cross-reactivity with known allergens.
- T-cell epitopes showed significant MHC class II population coverage in Indian and world population.

Mail: naveen@igib.res.in;
akansha.sharma@igib.res.in