NF-κB Signaling Pathway

Cytokine-Cytokine Receptor Interaction

EDA-A2 BAFF LIGHT LTB LTA RANKL CD40L LBP LPS(G-) MD-2 Virus EDA-A2 EDA-A1 TNFα IL-1β Antigen MHG/Antigen

XEDAR BAFF-R LT-βR RANK CD40 TLR4 CD14 XEDAR EDAREDAR TNF-R1 IL-1R BCR TCR

Osteoclast Differentiation

Syk Lyn Zap Lck

TRAF3 TRAF6 TRAF2 TRAF3 TRAF2 TRAF6 TRAF2 TRAF5 TRAF6 TRAF2 TRAF3 TRAF6 RIG-I TRAF2/6 TRAF3 TRAF6 EDARADD TRAF2/5 TRADD RIP1 MyD88 IRAK1/4 TRAF6 +p BLINK Btk LAT

+u cIAP1/2 TRAM TRIF TIRAP MyD88 TRIM25 -u CYLD TRAF6 +u cIAP1/2 Apoptosis

RIP1 IRAK1/4 TRAF6 TRAF6 PLCγ2

IP3 PLCγ1

TAK1 TAB Auto-Ubiquitation DAG

NIK cIAP1/2 NIK

NEMO IKKα IKKβ +p Ca2+ IP3

Auto-Ubiquitation PKCβ DAG

Noncanonical Pathway +p IKKα Btk Canonical Pathway +p

+p Ca2+

(S866, S870) (S32, S36) CARMA

p100 RelB NF-κB IκBα Bcl10 +p

MALT1 PKCθ

Partial Degradation Degradation p50 p65 Ubiquintin Mediated Proteolysis

Atypical Pathway UV, HER2 CK2 +p Pervanadate, Hypoxia / Reoxygenation (H/R) H2O2, EGF, CNTF, NGF +p

iASPP Canonical pathway NF-κB

p52 (S/T (PEST) (Y42) Proteasome

IκBα IκBα NEMO T-cell Receptor Signaling Pathway

Degradation Degradation p50 p65 p50 p65 NF-κB NF-κB RIG-I-like Receptor Signaling Pathway

Shuttling B-cell Receptor Signaling Pathway

Genotoxic Agent

DNA DNA DNA DNA DNA DNA

(LT/LIGHT) ICAM BAFF SDF-1α SLC BLC ELC Bcl-XL A1/Bf1-1 (UV) uPA Bcl_XL (H/R) (NGF) (TNF-α) MIP-1β MIP-2 VCAM-1 COX2 A20 IL-1β IL8 p100 IκBα TNF-α (TNF-α, IL-1β, LPS) (Antigen, TNF-α) NEMO PIDD RIP1 ATM NEMO RARP1 PIASy Ubs9

Lymphocyte Adhesion, T-cell Costimulation B-cell development, B-cell survival Myeloiesis and B-cell Lymphophoiesis Lymphoid-tissue homin Survival Survival Inflammation Inflammation Negative Feedback Positive Feedback Survival Activation of Nonconanical Pathway TRAF1/2 A1/Bf1-1 Bcl-XL Bcl-2 gadd45β cIAP1/2 c-FLIP XIAP Survival SUMOylation

BOSTER antibody and ELISA experts

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TGF-β/Smad Signaling Pathway

For more pathways, please visit : www.bosterbio.com/pathways

Binding Regulation Modification Expression Related Pathway Transport Reaction Membership Unknown Relation