

2. Material

2.1. Chemicals and reagents

All chemicals and reagents were purchased from Merck, Roth or Sigma in pro analysi grade if not stated otherwise. Restriction endonucleases were purchased from New England Biolabs.

2.2. Antibodies

β -Actin	polyclonal rabbit, #A2060, Sigma-Aldrich
4-1BB	monoclonal mouse, R-PE conjugate, #555956, PharMingen
4-1BB Ligand	monoclonal mouse, R-PE conjugate, #559446, PharMingen
Bcl-x _L	polyclonal rabbit, #B22630, Transduction Laboratories
CD11b	monoclonal mouse, #30450d, PharMingen
CD14	monoclonal mouse, #30540d, PharMingen
CD16	monoclonal mouse, #30620d, PharMingen
CD19	monoclonal mouse, #30650d, PharMingen
CD28	monoclonal mouse, #33740d, PharMingen
CD3	monoclonal mouse, Orthoclone® OKT 3, Janssen-Cilag
CD3	monoclonal mouse, R-PE conjugate, #347347, PharMingen
CD4	monoclonal mouse, R-PE conjugate, #347327, PharMingen
CD8	monoclonal mouse, R-PE conjugate, #340046, PharMingen
CD80	monoclonal mouse, #1449, Immunotech
CD80	monoclonal mouse, R-PE conjugate, #557227, PharMingen
CD95	monoclonal mouse, R-PE conjugate, #556641, PharMingen
FLIP (NT)	polyclonal rabbit, #X1129P, Exalpha
IgG ₁ standard	monoclonal mouse, #553447, PharMingen
IgG ₁ standard	monoclonal mouse, R-PE conjugate, #349043, PharMingen
IgG _{2a} standard	monoclonal mouse, #553453, PharMingen
IgG _{2b} standard	monoclonal mouse, #559530, PharMingen
mouse IgG	polyclonal goat F(ab') ₂ Fragment, #115-006-062, Dianova

mouse IgG	polyclonal goat, HRP conjugate, #1031-05, Southern Biotechnology
Phospho-AKT (Ser473)	polyclonal rabbit, #9271, Cell Signaling Technology
rabbit IgG	polyclonal goat, HRP conjugate, #4050-05, Southern Biotechnology

2.3. Primers

h4-1BBL forward 4 - 23	5' - ATG GAA TAC GCC TCT GAC GC - 3'
h4-1BBL reverse 788 - 806	5' - TCG GAC TCT GTC CAG GTG G - 3'
hCD80 forward 318 - 338	5' - CGC GGA TCC GCG CCA GCC ATG GGC CAC ACA CGG AGG CAG - 3'
hCD80 reverse 1197 - 1173	5' - CCG GAA TTC TCT GCG GAC ACT GTT ATA CAG GGC G - 3'

2.4. Inhibitors

LY 294002	PI3 kinase inhibitor, #440202, Calbiochem
SH-5	AKT inhibitor, #124008, Calbiochem

2.5. Suppliers

Amersham, Freiburg, Germany
Becton Dickinson, Heidelberg, Germany
Biochrom, Berlin, Germany
Bio-Rad, München, Germany
Calbiochem, Darmstadt, Germany
Cell Signaling Technology, Beverly, MA, USA
Chiron, Ratingen, Germany
DakoCytomation, Carpinteria, USA
Dianova, Hamburg, Germany
DSMZ, Braunschweig, Germany

Exalpha, Watertown, MA, USA
Immunotech, Marseille, France
Invitrogen, Karlsruhe, Germany
Janssen-Cilag, Neuss, Germany
Merck, Darmstadt, Germany
Molecular Probes, Leiden, Netherlands
NEN Life Science Products, Zaventem, Belgium
New England Biolabs, Beverly, MA, USA
PerkinElmer, Rodgau - Jügesheim, Germany
PharMingen, Heidelberg, Germany
Pierce, Rockford, IL, USA
Promega, Mannheim, Germany
Roche Diagnostics, Mannheim, Germany
Roth, Karlsruhe, Germany
Schärfe System, Reutlingen, Germany
Schleicher & Schuell, Dassel, Germany
Sigma-Aldrich, Munich, Germany
Southern Biotechnology, Birmingham, AL, USA
Thermo Shandon, Pittsburgh, USA
Transduction Laboratories, Heidelberg, Germany