

```
function [integrin] = stateLigandDeact(integrin, Pub)
% user defined function that will change the activation state and ligand
% bound state

% for loop to change the state of each integrin if its random generated
% number is less than the unbinding probability (Pub)
for i = 1:numel(integrin)
    if integrin(i).ligand_state == 1
        if rand() < Pub
            integrin(i).activation_state = 0;
            integrin(i).ligand_state = 0;
        end
    end
end
end
```